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.COOP SPONSORED TLD REGISRY AGREEMENT

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Appendix 1 Data Escrow Specification

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

Exhibit A-Schedule for Escrow Deposits

Exhibit B-Escrow Deposit Format Specification

Exhibit C-Escrow Transfer Process

Exhibit D-Escrow Verification Procedures

The fifth exhibit (Exhibit E), which sets forth Escrow Agent's fees, is subject to negotiation between Registry Operator and Escrow Agent and is not included in this document.

Exhibit A SCHEDULE FOR ESCROW DEPOSITS

Full Deposit Schedule

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

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

Incremental Deposit Schedule

Incremental daily deposits will be made on a daily basis when, and as specified in the TLD Sponsorship Agreement.

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

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

Exhibit B

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 format described in items 2 to 8 below. Item 2 describes the report container that is common to all reports. Items 3 to 7 describe the contents of the report container for each of the specific reports. Item 8 describes the XML schema which formally defines the structure and concatenation of these reports and the connection between the data in these reports and the EPP data stored by the registry.

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

Character	Escape Sequence
"	"
&	&
'	'
<	<
>	>

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

```
<?xml version="1.0" encoding='UTF-8' ?>
<!DOCTYPE escrow SYSTEM "whois-export.dtd" >
<escrow version="1.1" tld="coop" date="26-Mar-2007 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 contents and structure of each element are described in items 3 to 8 below.}

```
</escrow>
```

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

- a. roid: Unique identifier of the domain name
- b. status: The EPP domain status codes.
- c. registrant: Contact-id that references the contact records for the registrant of this domain.
- d. contact-id: Multiple contact-ids that reference the contact records for this domain. Contact-id has the property "type" to denote the type of contact. "Type" can be one of: Administrative, Technical, or Billing
- e. host: Up to thirteen (13) host names that are nameservers for the domain to which the domain object relates.
- f. owned-by: An identification of the current registrar of the domain. The sponsoring registrar is designated by a number uniquely assigned by the IANA.
- g. authinfo: EPP authorization code.
- h. created-on: The date/time the domain object was originally created.
- i. created-by: An identification of the registrar that created the domain object. The sponsoring registrar is designated by a number uniquely assigned by the IANA.
- j. renewed-on: The date/time the domain was last renewed.
- k. expires-on: The date the registration expires.

l. updated-by: An identification of the registrar that last updated the domain object. The sponsoring registrar is designated by a number uniquely assigned by the IANA.

m. updated-on: The date/time the domain object was last updated.

n. transferred-by: An identification of the registrar that last transferred the domain object. The sponsoring registrar is designated by a number uniquely assigned by the IANA.

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

An example domain element appears below:

```
<domain fqdn="example.coop">  
  <roid>0001-COOP</roid>  
  <status s="ok">ok</status>  
  <registrant> 0001-COOP</registrant>  
  <contact-id type="Administrative"> 0002-COOP</contact-id>  
  <contact-id type="Technical"> 0003-COOP</contact-id>  
  <contact-id type="Billing"> 0004-COOP</contact-id>  
  <host>dns1.example.coop</host>  
  <host>dns2.example.coop</host>  
  <owned-by>42</owned-by>  
  <authinfo>uWxg5aks</ authinfo>  
  <created-on>2007-03-01T12:42:22:41.5Z</created-on>  
  <created-by> 042</created-by>  
  <expires-on>2009-03-01T12:42:22:41.5Z </expires-on>  
  <updated-by>42</updated-by>  
  <updated-on>2007-09-01T12:42:22:41.5Z </updated-on>  
</domain>
```

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

a. roid: Identifier for the host as registered by the sponsoring registrar.

b. owned-by: An identification of the sponsoring registrar of the host. The sponsoring registrar is designated by a number uniquely assigned by the IANA.

c. created-on: The date/time the host object was originally created.

d. updated-by: An identification of the registrar that last updated the host object. The sponsoring registrar is designated by a number uniquely assigned by the IANA.

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

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

g. status: The EPP host status codes associated with the host.

An example host element appears below:

```
<host fqdn="dns1.example.coop">
  <roid> 0001-COOP</roid>
  <owned-by>42</owned-by>
  <created-on>2007-03-01T12:42:22:41.5Z </created-on>
  <updated-by>42</updated-by>
  <updated-on>2007-07-01T12:42:22:41.5Z </updated-on>
  <ip-address>192.168.1.1</ip-address>
  <ip-address>192.168.122.1</ip-address>
  <status s="ok">ok</status>
</host>
```

5. The Contact Element. The contact element has the property "id" containing the registrar given id for the contact and is a container consisting of the following elements:

a. roid: Registry assigned unique identifier of the contact

An ASCII version of the postal information (elements b – j below) for the contact will be stored in an element called ascii-postalinfo. If there is an equivalent localized version of these details in Unicode as well, this should be stored in an element called unicode-postalinfo.

b. name: The name of the contact.

c. organization: The organization for the contact.

d. street: The first part of the street address of the contact.

e. street: The second part of the street address of the contact.

f. street: The third part of the street address of the contact.

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

h. sp: The name of the state/province of the contact.

i. pc: The postal/zip code of the contact.

j. cc: The two letter ISO 3166 code for the contact's geographic location.

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

l. fax: The fax number of the contact in E164a format.

m. email: The e-mail address of the contact.

n. owned-by: An identification of the sponsoring registrar of the contact. The sponsoring registrar is designated by a number uniquely assigned by the IANA.

- o. created-by: An identification of the registrar that created the contact object. The sponsoring registrar is designated by a number uniquely assigned by the IANA.
- p. created-on: The date/time the contact object was originally created.
- q. updated-by: An identification of the registrar that last updated the contact object. The sponsoring registrar is designated by a number uniquely assigned by the IANA.
- r. updated-on: The date/time the contact object was last updated.
- s. transferred-by: An identification of the registrar that last transferred the contact object. The sponsoring registrar is designated by a number uniquely assigned by the IANA.
- t. transferred-on: The date/time when the contact object was last transferred.
- u. authinfo: EPP authorization code.
- v. status: Contact status.
- w. coop-specific: Any coop-specific information about the contact.

An example contact appears below:

```
<contact id="1">
  <roid>0025-COOP</roid>
  <ascii-postalinfo>
    <name>John Doe</name>
    <organization>aol</organization>
    <street>1234 East 11th Street</street>
    <street></street>
    <street></street>
    <city>New York</city>
    <sp>NY</sp>
    <pc>12345</pc>
    <cc>US</cc>
  <ascii-postalinfo>
    <voice>+212.1234567</voice>
    <fax>+212.1234568</fax>
    <email>jdoe@example.coop</email>
    <owned-by>42</owned-by>
    <created-by>42</created-by>
    <created-on>2007-03-01T12:42:22:41.5Z</created-on>
    <updated-by>42</updated-by>
    <updated-on>2007-03-02T12:42:22:41.5Z </updated-on>
  <authInfo>
    <contact:pw>xSd0SE1I2GpMvhUw</contact:pw>
  </authInfo>
  <status s="ok">ok</status>
  <coop-specific>
```

```
<coopExt:langPref>en-gb</coopExt:langPref>
<coopExt:mailingListPref>0</coopExt:mailingListPref>
</coop-specific>
</contact>
```

6. The Registrar Element. The registrar element has the property "id" containing the registry given id for the registrar and is a container consisting of the following elements:

- a. password: The password for the registrar.
- b. full-name: The full name of the registrar.
- m. iana-id: The IANA id of the registrar.
- n. web-url: The URL of the registrar's website.
- c. status: The registrar status code.
- d. address: The registered address of the registrar comprising street address, city, state/province, postal code and country
- i. voice: The phone number of the registrar
- j. fax: The fax number of the registrar
- l. contact: Any number of contacts associated with this registrar. Contact has the property "type" to denote the type of contact. "type" can be one of: Registrar, Administrative, Technical, Legal or Billing. Each contact contains its own name, address information, phone, fax and email.
- o. created-on: Date the registrar became active for the registry.
- p. updated-on: The date/time the registrar information was last updated.

An example registrar container appears below:

```
<registrar id="REG-id">
  <password>registrarrus</password>
  <full-name>Registrar R Us</full-name>
  <iana-id>42 </iana-id>
  <weblink>www.registrar.coop</weblink>
  <status>active</status>
  <address>
    <street>1234 East 11th Street</street>
    <street></street>
    <street></street>
    <city>New York</city>
    <sp>NY</sp>
    <pc>12345</pc>
```

```
<cc>US</cc>
</address>
```

```
<voice>+212.1234567</voice>
<fax>+212.1234568</fax>
<contact type="administrative">
  <name>John Doe</name>
  <org>aol</org>
  <street>1234 East 11th Street</street>
  <city>New York</city>
  <sp>NY</sp>
  <pc>12345</pc>
  <cc>US</cc>
  <voice>+212.1234567</voice>
  <fax>+212.1234568</fax>
  <email>jdoe@example.coop</email>
</contact >
<created-date>2007-03-08T00:00:00.0Z</created-date>
</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. Within the transaction element is a corresponding element of the correct type as described above. For example, a transaction element with a "type" of "host" appears below:

```
<transaction operation="modify" type="host">
<host fqdn="dns1.example.coop">
  <roid> 0001-COOP</roid>
  <owned-by>42</owned-by>
  <created-on>2007-03-01T12:42:22:41.5Z </created-on>
  <updated-by>42</updated-by>
  <updated-on>2007-07-01T12:42:22:41.5Z </updated-on>
  <ip-address>192.168.1.1</ip-address>
  <ip-address>192.168.122.1</ip-address>
  <status s="ok">ok</status>
</host>
</transaction>
```

8. Format. Full and incremental data sets will be XML version 1.0, UTF-8 encoded documents conforming to the following schema:

```
<?xml version="1.0"?>
<schema targetNamespace="urn:dotcooperation:whoisdb" xmlns="http://www.w3.org/2001/XMLSchema"
xmlns:whoisdb="urn:dotcooperation:whoisdb" xmlns:eppcom="urn:ietf:params:xml:ns:eppcom-1.0"
xmlns:epp="urn:ietf:params:xml:ns:epp-1.0" xmlns:contact="urn:ietf:params:xml:ns:contact-1.0"
xmlns:domain="urn:ietf:params:xml:ns:domain-1.0" xmlns:host="urn:ietf:params:xml:ns:host-1.0"
xmlns:coopExt="http://www.nic.coop/contactCoopExt-1.0" elementFormDefault="qualified">
```

```

<!--Import EPP Element Types-->
<import namespace="urn:ietf:params:xml:ns:eppcom-1.0" schemaLocation="eppcom-1.0.xsd" />
<import namespace="urn:ietf:params:xml:ns:epp-1.0" schemaLocation="epp-1.0.xsd" />
<import namespace="urn:ietf:params:xml:ns:contact-1.0" schemaLocation="contact-1.0.xsd" />
<import namespace="urn:ietf:params:xml:ns:domain-1.0" schemaLocation="domain-1.0.xsd" />
<import namespace="urn:ietf:params:xml:ns:host-1.0" schemaLocation="host-1.0.xsd" />
<import namespace="http://www.nic.coop/contactCoopExt-1.0" schemaLocation="contactCoopExt-1.0.xsd" />
<!--Escrow Container Element-->
<element name="escrow" type="whoisdb:whoisDbType" />
<complexType name="whoisDbType">
<choice>
  <element name="full" type="whoisdb:fullsetType" />
  <element name="incremental" type="whoisdb:partialType" />
</choice>
<attribute name="tld" type="whoisdb:tldType" use="required" />
<attribute name="date" type="dateTime" use="required" />
<attribute name="version" type="decimal" use="required" />
</complexType>
<simpleType name="tldType">
<restriction base="string">
  <enumeration value="coop" />
</restriction>
</simpleType>
<!--Container elements for full and incremental sets-->
<complexType name="fullsetType">
<sequence minOccurs="1">
  <element name="contact" type="whoisdb:contactType" minOccurs="0" maxOccurs="unbounded" />
  <element name="domain" type="whoisdb:domainType" minOccurs="0" maxOccurs="unbounded" />
  <element name="host" type="whoisdb:hostType" minOccurs="0" maxOccurs="unbounded" />
  <element name="registrar" type="whoisdb:registrarType" minOccurs="0" maxOccurs="unbounded" />
</sequence>
</complexType>
<complexType name="partialType">
<sequence minOccurs="1">
  <element name="contact" type="whoisdb:contactType" minOccurs="0" maxOccurs="unbounded" />
  <element name="domain" type="whoisdb:domainType" minOccurs="0" maxOccurs="unbounded" />
  <element name="host" type="whoisdb:hostType" minOccurs="0" maxOccurs="unbounded" />
  <element name="registrar" type="whoisdb:registrarType" minOccurs="0" maxOccurs="unbounded" />
  <element name="transaction" type="whoisdb:transactionType" minOccurs="0" maxOccurs="unbounded" />
</sequence>
</complexType>
<!--Domain element-->
<complexType name="domainType">
<sequence>
  <element name="roid" type="eppcom:roidType" />
  <element name="status" type="domain:statusType" minOccurs="1" maxOccurs="14" />
  <element name="registrant" type="domain:contactType" maxOccurs="1" />
  <element name="contact-id" type="domain:contactType" minOccurs="0" maxOccurs="unbounded" />
  <element name="host" type="eppcom:labelType" minOccurs="0" maxOccurs="13" />
  <element name="owned-by" type="whoisdb:registrarlanalDType" />
  <element name="authInfo" type="domain:authInfoType" />
  <element name="created-on" type="dateTime" />
  <element name="created-by" type="whoisdb:registrarlanalDType" />
  <element name="renewed-on" type="dateTime" minOccurs="0" />
  <element name="expires-on" type="dateTime" />
  <element name="updated-by" type="whoisdb:registrarlanalDType" minOccurs="0" />

```

```

    <element name="updated-on" type="dateTime" minOccurs="0" />
    <element name="transferred-by" type="whoisdb:registrarlanalDType" minOccurs="0" />
    <element name="transferred-on" type="dateTime" minOccurs="0" />
</sequence>
<attribute name="fqdn" type="eppcom:labelType" use="required" />
</complexType>

<!--Host element-->
<complexType name="hostType">
<sequence>
    <element name="roid" type="eppcom:roidType"/>
    <element name="owned-by" type="whoisdb:registrarlanalDType" />
    <element name="created-on" type="dateTime" />
    <element name="updated-by" type="whoisdb:registrarlanalDType" minOccurs="0" />
    <element name="updated-on" type="dateTime" minOccurs="0" />
    <element name="ip-address" type="host:addrType" minOccurs="0" maxOccurs="unbounded"/>
    <element name="status" type="host:statusType" maxOccurs="7"/>
</sequence>
<attribute name="fqdn" type="eppcom:labelType" use="required" />
</complexType>

<!--Contact element-->
<complexType name="contactType">
<sequence>
    <element name="roid" type="eppcom:roidType" />
    <element name="ascii-postalinfo" type="contact:postalInfoType" maxOccurs="1" />
    <element name="unicode-postalinfo" type="contact:postalInfoType" minOccurs="0" maxOccurs="1" />
    <element name="voice" type="contact:e164Type" minOccurs="0" />
    <element name="fax" type="contact:e164Type" minOccurs="0" />
    <element name="email" type="eppcom:minTokenType" />
    <element name="owned-by" type="whoisdb:registrarlanalDType" />
    <element name="created-by" type="whoisdb:registrarlanalDType" />
    <element name="created-on" type="dateTime" />
    <element name="updated-by" type="whoisdb:registrarlanalDType" minOccurs="0" />
    <element name="updated-on" type="dateTime" minOccurs="0" />
    <element name="transferred-by" type="whoisdb:registrarlanalDType" minOccurs="0" />
    <element name="transferred-on" type="dateTime" minOccurs="0" />
    <element name="authInfo" type="contact:authInfoType" minOccurs="0" />
    <element name="status" type="contact:statusType" maxOccurs="8" />
    <element name="coop-specific" type="coopExt:infDataType" />
</sequence>
<attribute name="id" type="eppcom:clIDType" use="required" />
</complexType>

<!--Registrar elements-->
<complexType name="registrarType">
<sequence>
    <element name="password" type="token" />
    <element name="full-name" type="whoisdb:registrarNameType" />
    <element name="iana-id" type="whoisdb:registrarlanalDType" />
    <element name="web-url" type="whoisdb:registrarWebUrlType" />
    <element name="status" type="whoisdb:registrarStatusType" />
    <element name="address" type="contact:addrType" />
    <element name="voice" type="contact:e164Type" />
    <element name="fax" type="contact:e164Type" minOccurs="0" />
    <element name="contact" type="whoisdb:registrarContactType" maxOccurs="unbounded" />

```

```

    <element name="created-on" type="dateTime" />
    <element name="updated-on" type="dateTime" minOccurs="0" />
</sequence>
<attribute name="id" type="whoisdb:registrarNameType" use="required" />
</complexType>

<complexType name="sRegistrarlanalDType">
<sequence>
    <element name="id" type="whoisdb:registrarlanalDType" />
</sequence>
</complexType>

<simpleType name="registrarlanalDType">
<restriction base="token" />
</simpleType>

<simpleType name="registrarNameType">
<restriction base="token">
    <minLength value="1" />
    <maxLength value="128" />
</restriction>
</simpleType>

<simpleType name="registrarWebUriType">
<restriction base="token" />
</simpleType>

<complexType name="registrarContactType">
<sequence>
    <element name="address" type="contact:postalInfoType" />
    <element name="voice" type="contact:e164Type" minOccurs="0" />
    <element name="fax" type="contact:e164Type" minOccurs="0" />
    <element name="email" type="eppcom:minTokenType" />
</sequence>
<attribute name="type" type="whoisdb:registrarContactStatusType" use="required" />
</complexType>

<simpleType name="registrarContactStatusType">
<restriction base="string">
    <enumeration value="administrative" />
    <enumeration value="billing" />
    <enumeration value="technical" />
    <enumeration value="legal" />
</restriction>
</simpleType>

<simpleType name="registrarStatusType">
<restriction base="string">
    <enumeration value="active" />
    <enumeration value="suspended" />
    <enumeration value="defunct" />
</restriction>
</simpleType>

<!-- Transaction types-->
<complexType name="transactionType">

```

```

<choice minOccurs="1" maxOccurs="1">
  <element name="contact" type="whoisdb:contactType" minOccurs="1" maxOccurs="1" />
  <element name="domain" type="whoisdb:domainType" minOccurs="1" maxOccurs="1" />
  <element name="host" type="whoisdb:hostType" minOccurs="1" maxOccurs="1" />
  <element name="registrar" type="whoisdb:registrarType" minOccurs="1" maxOccurs="1" />
</choice>
<attribute name="operation" type="whoisdb:transactionOperationType" use="required" />
<attribute name="type" type="whoisdb:transactionObjectType" use="required" />
</complexType>

<simpleType name="transactionOperationType">
<restriction base="string">
  <enumeration value="add" />
  <enumeration value="modify" />
  <enumeration value="delete" />
</restriction>
</simpleType>

<simpleType name="transactionObjectType">
<restriction base="string">
  <enumeration value="domain" />
  <enumeration value="host" />
  <enumeration value="registrar" />
  <enumeration value="contact" />
</restriction>
</simpleType>
</schema>

```

Exhibit C

ESCROW TRANSFER PROCESS

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

1. The Reports making up the Deposit will first be created according to the format specification. (See Exhibit B above, "Escrow Deposit Format Specification").
2. The Reports making up the Deposit will be concatenated. The resulting file shall be named according to the following format: "[----]SEQN," where "SEQN" is a four digit decimal number that is incremented as each report is prepared.
3. Next, the Deposit file will be processed by a program (within 90 days of such time as program is 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 .MDS file (produced with MDSSUM 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 D

ESCROW VERIFICATION PROCEDURES

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

1. At the conclusion of the deposit window, all Deposit files will be moved to a not-publicly-accessible directory and the existence and size of each will be noted.
2. Each Deposit file will be decrypted using Escrow Agent's private key for PGP and authenticated using Registry Operator's public key for PGP. (In this step, PGP will also automatically decompress the escrow file).
3. If there are multiple files, they will be concatenated in sequence.
4. Escrow Agent will run a program (within 90 days of such time as the program is supplied by ICANN) on the Deposit file (without report) that will split it in to its constituent reports (including the format report prepared by the Registry Operator and appended to the Deposit) check its format, count the number of objects of each type, and verify that the data set is internally

consistent. This program will compare its results with the results of the Registry-generated format report, and will generate a Deposit format and completeness report. The program will encrypt the report using ICANN's public key for PGP and signed using Escrow Agent's private key for PGP, both versions 6.5.1 or above, with a key of DH/DSS type and 2048/1024-byte length. (Note that PGP compresses the Deposit file(s) in addition to encrypting it (them).)

5. The decrypted Deposit file will be destroyed to reduce likelihood of data loss to intruders in case of partial security failure.

Distribution Of Public Keys. Each of Registry Operator and Escrow Agent will distribute its public key to the other party (Registry Operator or Escrow Agent, as the case may be) via email to an email address to be specified. Each party will confirm receipt of the other party's public key with a reply email, and the distributing party will subsequently reconfirm the authenticity of the key transmitted. In this way, public key transmission is authenticated to a user able to send and receive mail via a mail server operated by the distributing party. Escrow Agent, Sponsor and ICANN shall exchange keys by the same procedure.

Appendix 2 Escrow Agreement

This Registry Data Escrow Agreement (“Agreement”) is made as of this [enter date] (the "Beginning Date"), by and between DotCooperation LLC (“Sponsor”), **[Registry Operator]** (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 TLD Sponsorship Agreement dated [insert date of TLD Sponsorship Agreement] by and between Sponsor and ICANN ("TLD Sponsorship Agreement").

Recitals

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

B. Pursuant to the TLD Sponsorship Agreement, Sponsor shall ensure that the Registry Operator ensures the periodic delivery to Escrow Agent of an electronic copy of all Registry Data, as detailed in Subsection 3.1(c) of the TLD Sponsorship Agreement (each such delivery referred to as a "Deposit").

C. Sponsor, 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 instruct the creation and delivery to Escrow Agent of a Full Deposit once each week, according to the schedule specified in Exhibit A of Appendix 1 to the TLD Sponsorship Agreement. When the number of registrations of domains exceeds 20,000 domains, Registry Operator must instruct the creation and delivery to Escrow Agent of an Incremental Deposit once each day during which a Full Deposit is not made, according to the schedule specified in Exhibit A 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 Escrow Deposit Format Specification (the "Format Specification"), attached as Exhibit B 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 C of Appendix 1.

5. Notification of Deposits. Simultaneous with the delivery to Escrow Agent of any Full or Incremental Deposit, Registry Operator shall instruct the delivery to Escrow Agent and ICANN of 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 when it is available (as described in Exhibit C of Appendix 1) and states that the Full or Incremental Deposit (as the case may be) has been inspected by Registry Operator (or Registry Operator's agent at Registry Operator's direction) according to the procedures described in Exhibit C 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 D of Appendix 1 to the extent possible based on the availability of ICANN-supplied software 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 and fax, Sponsor, Registry Operator and ICANN of such nonconformity within forty-eight hours of discovery. Upon notification of such verification failure, Registry Operator shall instruct the beginning of the development of modifications, updates, corrections, and other fixes of the Full or Incremental Deposit necessary for the Deposit to pass the verification procedures and shall instruct the delivery of such fixes to Escrow Agent as promptly as possible. Escrow Agent shall verify the accuracy or completeness of any such corrected Deposit pursuant to the procedures in this Section 6 and shall send ICANN and Sponsor a copy of the successful report within twenty-four hours. The failure of any Full or Incremental Deposit to meet verification procedures and any efforts by Registry Operator to remedy such failure shall not delay the delivery of any subsequent scheduled Full or Incremental Deposits pursuant to the schedule in Exhibit A of 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. Such notification may be by authenticated e-mail.

7. Retention and Confidentiality.

7.1 Retention. Escrow Agent shall hold and maintain the Deposits in a secure, locked, and environmentally safe facility that is accessible only to authorized representatives of Escrow Agent. Escrow Agent shall use commercially reasonable efforts to protect the integrity of the Deposits. ICANN, Sponsor 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 D of Appendix 1. Escrow Agent may destroy any Deposits reflecting the Registry Database prior to these four most recent Full Deposits.

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 Sponsor, Registry Operator and ICANN within seven days or as soon as practicable and reasonably cooperate with Sponsor, 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 oversee the duplication of any Deposit.

9. Release of Deposits. Within five business days after receipt of any required documents and/or notices specified in this Section 9, Escrow Agent shall deliver all Deposits in Escrow Agent's possession (i) to Sponsor or Registry Operator in the event of a release pursuant to any of Sections 9.1.2, or 9.1.5, 9.1.6, 9.1.7 and 9.1.8 or (ii) to ICANN in the event of a release pursuant to Sections 9.1.1, 9.1.4, 9.1.7, or 9.1.8, or (iii) the party designated in the event of a release pursuant to Section 9.1.3, in the event that the Escrow Agent receives all of the items required by Sections 9.1, 9.2, 9.3, and 9.4 below:

9.1 One of the following notices:

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

9.1.2 A written notice by Sponsor or Registry Operator that the TLD Sponsorship Agreement has expired without renewal or been terminated; or

9.1.3 A written notice by Registry Operator, Sponsor, and ICANN requesting Escrow Agent to effect such delivery to Sponsor, ICANN, Registry Operator or a replacement escrow agent; or

9.1.4 A written notice by ICANN that it has received no successful verification report from Escrow Agent relating to a Full Deposit reflecting the Registry Database as of any date within the past month; or

9.1.5 A written notice by Registry Operator that all of the following have occurred:

9.1.5.1 Registry Operator 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, notification of receipt from Escrow Agent; and

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

9.1.5.3 Registry Operator has not, within seven calendar days after the notice under Section 9.1.5.2, received notice from Escrow Agent that the Deposit has or the Deposits have been received; or

9.1.6 A written notice by Registry Operator that all of the following have occurred:

9.1.6.1 Registry Operator has received notification from Escrow Agent of failed verification of a Full Deposit or of failed verification of five Incremental Deposits within any calendar month; and

9.1.6.2 Registry Operator gave notice to Registry Operator's agent of that receipt; and

9.1.6.3 Registry Operator has not, within seven calendar days after the notice under Section 9.1.6.2, received

notice from Escrow Agent of verification of a remediated version of the Deposit; or

9.1.7 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

9.1.8 A written notice by ICANN or Sponsor or Registry Operator that a court, arbitral, legislative, or government agency of competent jurisdiction has issued an order, rule, statute, regulation, or other requirement that mandates the release of the Deposits to ICANN and/or Sponsor and/or Registry Operator; and

9.2 Evidence satisfactory to Escrow Agent that ICANN or Sponsor or Registry Operator (whichever gave the notice under Section 9.1) has previously notified the other parties in writing; and

9.3 Written instructions from ICANN or a replacement escrow agent (see Section 9.1.3) that the Deposits be released and delivered to whichever of them provided such written instructions; and

9.4 A written undertaking by the party receiving the Deposits (ICANN or a replacement escrow agent) that the Deposits will be used only as permitted under the terms of the TLD Sponsorship Agreement and undertakings made in writing to registrants at registration including with respect to the collection and use of personal information about the registrant for marketing purposes. Upon release of any Deposits to ICANN, Sponsor, Registry Operator or a replacement escrow agent, Escrow Agent shall at the same time deliver to Sponsor and/or Registry Operator a photostatic copy of the notice it received from Sponsor, Registry Operator and/or ICANN under Sections 9.1.1 to 9.1.8, as applicable.

10. Release of Deposit to Sponsor or Registry Operator. Escrow Agent shall deliver all Deposits to Sponsor or Registry Operator upon termination of this Agreement in accordance with Sections 14.1 and 14.2.1 of this Agreement.

11. Procedure After Release.

11.1 Right to Use Deposits. Upon release of any Deposits to Sponsor or Registry Operator pursuant to Section 9, Sponsor or

Registry Operator (or its assignee in accordance with the TLD Sponsorship 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 TLD Sponsorship 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 TLD Sponsorship Agreement, including as necessary to provide registry services.

11.2 Objection Notices. Upon release of any Deposits to ICANN pursuant to Section 9, Sponsor shall have thirty calendar days to notify Escrow Agent and ICANN in writing (the "Objection Notice") of its objection to the release of the Deposits to ICANN and request that the issue of entitlement to the Deposits be resolved pursuant to the dispute resolution procedures in the TLD Sponsorship Agreement. Sponsor and ICANN agree to resolve any disputes they may have as between or among themselves under this Agreement according to Section 17.2. The parties agree that (i) Sponsor shall have no rights (other than pursuant to this Section 11.2) to object to any release of the Deposits, and (ii) the delivery of an Objection Notice and the commencement of Dispute Resolution Procedures shall not delay release of any Deposits to ICANN pursuant to Section 9.

11.3 Dispute-Resolution Procedures. Sponsor and ICANN each agrees that it may not challenge, in proceedings for the resolution of disputes between or among those parties under this Agreement, the resolution of any issues, claims, or defenses that were decided, or which it had a reasonable opportunity and motive to raise, in proceedings to which it was a party under the TLD Sponsorship Agreement.

11.4 Withdrawal of Objection Notice. A party providing an Objection Notice may, at any time, notify the other parties that it wishes to withdraw its Objection Notice. Upon receipt of notice of such withdrawal, Escrow Agent shall promptly deliver to Sponsor and/or ICANN any Deposits that have not previously been delivered.

11.5 Dispute Resolution Decisions.

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

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

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

by each of Sponsor, Registry Operator and ICANN that are parties to such interpleader or similar action.

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

14. Term and Termination.

14.1 Term. The initial term of this Agreement shall be **[insert period of at least one year when agent is selected]**, 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 Sponsor, 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) Sponsor and ICANN shall resolve any such disputes through Subsection 5.1 of the TLD Sponsorship Agreement; (ii) this Agreement shall continue to remain in effect during the resolution of any such disputes; and (iii) Escrow Agent shall have the right to invoice either Sponsor, Registry Operator or ICANN for the data escrow services provided during this dispute resolution period at the rates listed in Exhibit E to this Appendix 1.

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

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

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

14.2.3 As provided in Section 14.1.

15. Fees and Payments. Registry Operator shall pay to Escrow Agent the applicable fees and charges listed in Exhibit E as compensation for Escrow Agent's services under this Agreement. If Registry Operator fails to pay any fees or charges invoiced by Escrow Agent by the due date(s), Escrow Agent shall give written notice to Registry Operator of non-payment of any such past-due fees hereunder and, in that event, the Registry Operator shall have the right to pay the past-due fee(s) within ten business days after receipt of the notice from Escrow Agent. 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 Materials. Subject to the provisions of the TLD Sponsorship Agreement (including Subsection 6.5), the parties recognize and acknowledge that ownership of the Deposit materials during the effective term of this Agreement shall remain with the Sponsor 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 Sponsor, Registry Operator or ICANN.

17.2 Dispute Resolution. Sponsor and ICANN agree to resolve any disputes they may have as between or among themselves under this Agreement, including any objections to release of the Deposits pursuant to Section 9.1, solely pursuant to the dispute-resolution procedures in the TLD Sponsorship Agreement.

17.3 Limitation of Liability. The parties shall not be liable to each other for special, indirect, incidental, or consequential damages hereunder. As between Sponsor and ICANN the liability limitations of the TLD Sponsorship Agreement also apply. Neither Sponsor, Registry Operator nor ICANN shall be liable to each other for monetary damages under this Agreement.

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

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

17.8 Entire Agreement. This Agreement, including all exhibits referenced herein, supersedes all prior discussions, understandings, and agreements between Escrow Agent and the other parties with respect to the data escrow services. Sponsor, Registry Operator and ICANN acknowledge and agree that, as between themselves, the TLD Sponsorship Agreement (including all its appendices) is intended to co-exist with this Agreement; this Agreement is supplementary to the TLD Sponsorship Agreement; and the TLD Sponsorship Agreement shall control in the event of any conflict between this Agreement and the TLD Sponsorship Agreement.

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

17.10 Governing Law. This Agreement shall be construed and enforced in accordance with the laws of the State of California, without regard to its conflicts-of-laws principles. The parties consent and agree that jurisdiction and venue for any legal proceedings

relating to this Agreement shall lie with the state and federal courts of Los Angeles County in the State of California.

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

Appendix 3 Zone File Access Agreement

1. Parties

The User named in this Agreement hereby contracts with DotCooperation LLC ("Sponsor") for a non-exclusive, non-transferable, limited right to access an Internet host server or servers designated by Sponsor 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 Sponsor, Sponsor 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 that will be used to access Sponsor's 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 Sponsor (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 .COOP TOP-LEVEL DOMAIN ("TLD") ZONE FILES, AND ANY ASSOCIATED ENCRYPTED CHECKSUM FILES (COLLECTIVELY THE "DATA"), VIA THE FILE TRANSFER PROTOCOL ("FTP") OR THE HYPERTEXT TRANSFER PROTOCOL ("HTTP") PURSUANT TO THESE TERMS.

4. Grant Of Access

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

(a) use this Data only for lawful purposes but that under no circumstances will you use this Data to: (1) allow, enable, or otherwise support the transmission by e-mail, telephone, or facsimile of mass unsolicited, commercial advertising or solicitations to entities other than your own existing customers; or (2) enable high volume, automated, electronic processes that send queries or data to the systems of Sponsor or any ICANN-Accredited Registrar, except as reasonably necessary to register domain names or modify existing registrations. Sponsor reserves the right, with the approval of the Internet Corporation for Assigned Names and Numbers ("ICANN"), to

specify additional specific categories of prohibited uses by giving you reasonable written notice at any time and upon receiving such notice you shall not make such prohibited use of the Data you obtain under this Agreement.

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

(c) Not to use this Data, nor permit this Data to be used for any marketing purposes whatsoever.

(d) Copy the Data you obtain under this Agreement into a machine-readable or printed form only as necessary to use it in accordance with this Agreement in support of your use of the Data.

(e) Comply with all applicable laws and regulations governing the use of the Data.

(f) Not distribute the Data you obtained under this Agreement or any copy thereof to any other party without the express prior written consent of Sponsor, except that you may redistribute the Data insofar as it has been incorporated by you into a value-added product or service that does not permit the extraction of a substantial portion of the Data from the value-added product or service, provided you prohibit the recipient of the Data from using the Data in a manner contrary to Section 4(a).

(g) Take all reasonable steps to protect against unauthorized access to, use, and disclosure of the Data you obtain under this Agreement.

5. Fee

You agree to remit in advance to Sponsor a quarterly fee of \$0 (USD) for the right to access the files during either the Initial Term or Renewal Term of this Agreement. Sponsor 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

Sponsor 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, Sponsor 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." Sponsor 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 Sponsor 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 Sponsor 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 the District of Columbia. You expressly and irrevocably agree and consent to the personal jurisdiction and venue of the federal and state courts located the District of Columbia (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 Sponsor at 1401 New York Avenue, Suite 1100, Washington, DC 2005. Sponsor 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 Sponsor 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 .coop Sponsored TLD as provided to TLD nameservers on the Internet.

14. Entire Agreement

This is the entire agreement between you and Sponsor 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.

DotCooperation LLC

User:

By: _____
(sign)

By: _____
(sign)

Name: _____
(print)

Name: _____
(print)

Title: _____

Title: _____

Date: _____

Date: _____

ASSIGNED USERID AND PASSWORD

(To be assigned by Sponsor upon execution of this Agreement):

USERID: _____ PASSWORD: _____

FTP Access Location: _____

Appendix 4 Sponsor's Monthly Report

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

1. Accredited Registrar Status. State the number of registrars in each of the following three categories: (1) operational, (2) ramp-up (registrars that have received a password for access to OT&E), and (3) pre-ramp-up (registrars that have requested access, but have not yet entered the ramp-up period).

2. Service Level Agreement Performance. Compare Service Level Agreement requirements with actual performance measures for the reporting month.

3. TLD Zone File Access Activity. State the total number of zone file access passwords at end of the reporting month.

4. Completed System Software Releases. Describe significant releases during the reporting month, including release name, features, and completion date.

5. Whois Service Activity. State the number of Whois queries during the reporting month.

6. Total Number of Transactions by Subcategory by Month. State the total number of transactions during the reporting month, in the following subcategories: adds, deletes, modifies, checks, renews, transfers, restores.

7. Daily Transaction Range. Tabulate the number of total daily transactions. The range of transaction volume should be shown for each month, along with the average daily transaction volume.

8. Per-Registrar Activity Report. This report shall be transmitted to ICANN electronically in comma or pipe separated-value format, using the following fields per registrar:

Field #	Field Name	Notes
---------	------------	-------

01	registrar-name	registrar's full corporate name
02	iana-id	http://www.iana.org/assignments/registrar-ids
03	total-domains	total domains under sponsorship
04	total-nameservers	total nameservers registered
05	net-adds-1-yr	domains successfully added (and not deleted within the add grace period)
06	net-adds-2-yr	number of domains successfully registered with an initial term of two years
07	net-adds-3-yr	number of domains successfully registered with an initial term of three years
08	net-adds-4-yr	etc.
09	net-adds-5-yr	" "
10	net-adds-6-yr	" "
11	net-adds-7-yr	" "
12	net-adds-8-yr	" "
13	net-adds-9-yr	" "
14	net-adds-10-yr	" "
15	net-renews-1-yr	domains renewed either automatically or by command (and not deleted within the renew grace period)
16	net-renews-2-yr	number of domains successfully renewed with a new renewal period of two years
17	net-renews-3-yr	number of domains successfully renewed with a new renewal period of three years
18	net-renews-4-yr	etc.
19	net-renews-5-yr	" "

20	net-renews-6-yr	" "
21	net-renews-7-yr	" "
22	net-renews-8-yr	" "
23	net-renews-9-yr	" "
24	net-renews-10-yr	" "
25	transfer-gaining-successful	transfers initiated by this registrar that were ack'd by the other registrar – either by command or automatically
26	transfer-gaining-nacked	transfers initiated by this registrar that were n'acked by the other registrar
27	transfer-losing-successful	transfers initiated by another registrar that this registrar ack'd – either by command or automatically
28	transfer-losing-nacked	transfers initiated by another registrar that this registrar n'acked
29	transfer-disputed-won	number of transfer disputes in which this registrar prevailed
30	transfer-disputed-lost	number of transfer disputes this registrar lost
31	transfer-disputed-nodecision	number of transfer disputes involving this registrar with a split or no decision
32	deleted-domains-grace	domains deleted within the add grace period
33	deleted-domains-nograce	domains deleted outside the add grace period
34	restored-domains	domain names restored from redemption period
35	restored-	total number of restored names for which the

	noreport	registrar failed to submit a restore report
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Appendix 5 Whois Specifications

Public Whois Specification

Public Whois for the .coop Sponsored TLD will be provided according to the specification described in Part V of Appendix S.

Whois Provider Data Specification

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

1. The Designated Recipient shall only use the data provided by the Registry Operator for the purpose of providing free public query-based Whois access as described in Section 3.1(c)(v) of the .coop Sponsored TLD Agreement. The Designated Recipient may not use such data for any other purpose.
2. The Designated Recipient shall use best efforts to implement any corrections to the data provided by the Registry Operator as soon as practicable.
3. The Designated Recipient must take such technical and organizational security measures as are, at a minimum, equivalent to

those implemented by or on behalf of the Registry Operator with respect to such data.

4. Except for providing free public query-based access according to item 1 above, the Designated Recipient shall not transfer the data to any third party for any purpose except in the event that such third party becomes bound in the same manner as a Designated Recipient by the provisions of this Appendix and the Whois License Agreement.

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

A. Procedures for Providing Access

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

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

a. The XML document will be placed in a file named according to the following convention: For full data sets: "wfYYMMDD" where "YYMMDD" is replaced with the date (YY=last two digits of year; MM=number of month; DD=day; in

all cases a single digit number should be left-padded with a zero). For incremental data sets: "wiYYMMDD" where "YYMMDD" follows the same format.

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

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

2. Transmission of Full Data Sets. Once prepared, full data sets will be provided either by the procedures for incremental data sets described in item A (3) below or, at the option of either the Registry Operator or the Designated Recipient, by writing the full data set to compact disc (or other media mutually agreed by Registry Operator and the Designated Recipient) and sending it to the Designated Recipient by expedited delivery service (such as FedEx or DHL). If sent by expedited delivery service, the full data set will be scheduled for arrival no later than the second calendar day following the day to which the full backup relates and the Registry Operator will bill the Designated Recipient for the price of the hardcopy and delivery fees on a monthly basis.

3. Transmission of Incremental Data Sets. To permit the transmission of incremental data sets, Sponsor shall ensure Registry Operator makes them available for download by the Designated Recipient by Internet File Transfer Protocol. Incremental data sets will

be made available for download no later than 2000 UTC on the day to which they relate.

B. Content

The XML format is designed to represent both complete and incremental Sponsor data sets.

- The escrow format describes domain, host, contact and registrar objects stored in the registry repository.
- The full escrow describes a snapshot of the given date, while the incremental escrow represents a transaction log. In the full escrow, only the "domain", "host", "contact" and "registrar" elements appear, while in the incremental escrow, the other elements may also appear.
- For the incremental escrow, three additional attributes are specified: the "actor" denotes the entity that caused the modification. This is either a registrar ID, the ID of a support staff member or the name of an internal process of the SRS that performed the modification automatically (like auto-renew). The "timestamp" documents the point in time when the modification has taken place. The "txn" is an identifier that further details the precise activity.
- To allow a differentiation between the creation and updates of an object within an incremental escrow, the "domain", "host", "contact" and "registrar" elements contain an "action" attribute that provides this information.

The following core data is reproduced in the escrow file:

Domain

- the internal ID of the domain object
- the domain name, including the assigned language and the reserved IDN domain name variants.
- the internal ID of the sponsoring registrar
- the IDs of the registrant, administrative, technical and billing contact

- the status values
- the ENS authorization ID
- the EPP authentication information
- the maintainer URL
- the creation, expiration, update and transfer dates

Host

- the internal ID of the host object
- the domain name
- the assigned IP addresses
- the internal ID of the sponsoring registrar
- the status values
- the maintainer URL
- the creation, update and transfer dates

Contact

- the ID of the contact object
- the name, organization, streets, city, state, postal code and country code
- the phone and fax numbers and the e-mail address.
- the EPP authentication information
- the maintainer URL
- the creation and update dates

Registrar

- the internal ID of the registrar object
- the organization, streets, city, state, postal code, country code, phone and fax number, e-mail address, web server address
- the creation and update dates
- the IDs of the administrative, technical and billing contact

C. Format

The schema (XSD) for the XML formatted escrow files, agreed between the registry operator and ICANN, will be made available to designated parties upon request.

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
- irtf
- 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. Registry Operator may use them, 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. Names Registered to Sponsor. The following domains have been registered by Sponsor for its own use directly with the Registry Operator

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

1. ftp.coop

2. gopher.coop
3. imap.coop
4. login.coop
5. ldap.coop
6. nic.coop
7. registry.coop
8. registrar.coop
9. whois.coop
10. www.coop
11. zonefile.coop

Part B: Names Staying with Sponsor in the Event of Reassignment:

1. aci.coop
2. clusa.coop
3. dcllc.coop
4. ica.coop
5. igb.coop
6. mka.coop
7. ncba.coop

If the corporate identity of Sponsor (DCLLC) is changed, this Appendix will be amended in discussion with ICANN to incorporate second level domain variations on the new identity.

Appendix 7 Functional and Performance Specifications

Pursuant to the responsibility delegated to it in Appendix S, Sponsor will prescribe functional requirements for Sponsor Services provided for the .coop sTLD that shall ensure that at least the following minimum functional capabilities are provided.

1. Conventions

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

2. Nameserver Requirements

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

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

There MUST be nameservers for the .coop Sponsored TLD on at least five different network segments. So that the IANA has zone-file access, zone-file transfers MUST be enabled at all nameservers for transfers to at least 128.9.0.0/16 and 192.0.32.0/20.

3. Sponsor System Requirements

The registry system **MUST** enforce the name reservations and Charter requirements set forth in Appendix S.

4. Whois Service Requirements

Whois service **MUST** meet at least the functional specifications set forth in Appendix 5.

5. Data Escrow Requirements

Data escrow **MUST** meet at least the functional specifications set forth in Appendix 1. The registry system shall be capable of storing the data to be escrowed.

6. Reporting Requirements

The registry system **MUST** provide data sufficient to meet the reporting requirements set forth in Appendix 4.

7. Performance Specifications

DNS Service Availability. Service availability as it applies to the DNS Service refers to the ability of the Nameservers, as a group, to resolve a DNS query from an Internet user. The committed Performance Specification is 99.999% measured in Monthly Timeframes.

Performance Level. At any time at which it is available, each Nameserver (including a cluster of Nameservers addressed at a shared IP address) **MUST** be able to handle a load of queries for DNS data that is three times the measured daily peak (averaged over the Monthly Timeframe) of such requests on the most loaded Nameserver.

Cross-Network Nameserver Performance Requirements. The committed Performance Specification for cross-network Nameserver performance is a measured Round-trip time of less than 300 ms and measured packet loss of fewer than 10%. Cross-network Nameserver performance measurements will be conducted by ICANN at times of its choosing, in the following manner:

The measurements will be conducted by sending strings of DNS request packets from each of four measuring locations to each of the Nameservers and observing the responses from the Nameservers. (These strings of requests and responses are referred to as a "CNNP Test".) The measuring locations will be four root nameserver locations (on the US East Coast, US West Coast, Asia, and Europe).

Each string of request packets will consist of 100 UDP packets at 10-second intervals requesting ns records for arbitrarily selected second-level domains in the Sponsored TLD, preselected to ensure that the names exist in the Sponsored TLD and are resolvable. The packet loss (i.e. the percentage of response packets not received) and the average Round-trip time for response packets received will be noted.

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

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

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

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

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

To ensure a properly diverse testing sample, ICANN will conduct the CNNP Tests at varying times (i.e. at different times of day, as well as on different days of the week). The cross-network Nameserver performance requirement will be deemed not to have been met only if the Nameservers persistently fail the CNNP Tests with no less than three consecutive failed CNNP Tests to be considered to have persistently failed.

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

If, following Sponsor's opportunity to cure, the Nameservers continue to persistently fail CNNP Tests and Sponsor fails to resolve the problem within thirty days after written notice of the continuing failures, Sponsor will be in breach of its obligations under the Sponsorship Agreement.

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

Whois Service Availability. The committed Performance Specification for Whois Service is 99.4% measured in Monthly Timeframes.

Whois Service Performance Level. The Whois Service will, on average, be able to handle 50 queries per second.

Whois Service Response Times. The Whois Service will have a maximum whois query response time of 1.5 seconds. Failure of the Whois Service to respond to three (3) consecutive rcPing commands initiated by the Sponsor at regular intervals within such maximum processing time shall mean the Whois Service is considered unavailable.

Whois Service Updates. The data provided by the Whois Service will be updated on at least a daily basis.

8. Location of Data Centers

The Registry Operator, currently Midcounties Co-operative Domains, Limited, will provide data centers for registration services. The primary data center is currently located in Redditch, UK (UKS Limited, Birmingham Road, Studley, Warwickshire, B80 7BG). The secondary center is located in Oxford, UK at the HQ of the Registry Operator.

Appendix S

- Part I .coop sTLD Charter
- Part II Delegated Authority
- Part III Description of .coop Sponsored TLD Community
- Part IV Selection of Registrars
- Part V Public Whois
- Part VI Challenges to Registrations in Violation of Charter
- Part VII Existing Sponsor Services

Appendix S – Part I .COOP Charter

The .coop TLD will be established to serve the needs of the international cooperative community ("Community"). It will be managed in accordance with the provisions of this charter ("Charter") and in the interests of the Community.

1. The Sponsor will be responsible for establishing registration requirements for the .coop TLD, provided that registrations shall be granted only to persons or entities that are defined in item 3 below.

2. For the purposes of this Charter, a "cooperative" is an organization meeting the definition and committed to the values and principles set forth in the Statement on the Co-operative Identity (see <http://www.ica.coop/coop/principles.html>) adopted by the International Co-operative Alliance ("ICA"), as set forth below and as it may be revised from time to time.

3. Sponsor's policies may permit registration within the Community by the following:

(a) members of the National Cooperative Business Association (NCBA), if otherwise eligible;

(b) members of ICA, if otherwise eligible;

(c) organizations formed as and/or considered cooperatives under applicable local law;

(d) associations comprised of cooperatives;

(e) organizations that are committed to the seven cooperative principles;

(f) organizations that are majority controlled by cooperatives;

(g) entities whose operations are principally dedicated to serving cooperatives; and

(h) for no more than 5000 registrants, persons or entities whose use of a .coop domain name would, in the opinion of the DCLLC Board, advance the interests of the cooperative sector in general or would assist in the development of cooperatives worldwide.

4. The Sponsor may establish stricter requirements for registrants according to the requirements of policy-development set forth in the Sponsored TLD Sponsorship Agreement.

5. The Sponsor will promptly convey to ICANN any modifications that may be made to the definition of "cooperative" in the ICA Statement of Co-operative Identity.

From Statement of Co-operative Identity

Definition - A co-operative is an autonomous association of persons united voluntarily to meet their common economic, social, and cultural needs and aspirations through a jointly-owned and democratically-controlled enterprise.

Values - Co-operatives are based on the values of self-help, self-responsibility, democracy, equality, equity, and solidarity. In the tradition of their founders, co-operative members believe in the ethical values of honesty, openness, social responsibility, and caring for others.

Principles - The co-operative principles are guidelines by which co-operatives put their values into practice.

1st Principle: Voluntary and Open Membership - Co-operatives are voluntary organizations, open to all persons able to use their services and willing to accept the responsibilities of membership, without gender, social, racial, political, or religious discrimination.

2nd Principle: Democratic Member Control - Co-operatives are democratic organizations controlled by their members, who actively participate in setting their policies and making decisions. Men and women serving as elected representatives are accountable to the membership. In primary co-operatives members have equal voting rights (one member, one vote), and co-operatives at other levels are also organized in a democratic manner.

3rd Principle: Member Economic Participation - Members contribute equitably to, and democratically control, the capital of their co-operative. At least part of that capital is usually the common property of the co-operative. Members usually receive limited compensation, if any, on capital subscribed as a condition of membership. Members allocate surpluses for any or all of the following purposes: developing their co-operative, possibly

by setting up reserves, part of which at least would be indivisible; benefiting members in proportion to their transactions with the co-operative; and supporting other activities approved by the membership.

4th Principle: Autonomy and Independence - Co-operatives are autonomous, self-help organizations controlled by their members. If they enter into agreements with other organizations, including governments, or raise capital from external sources, they do so on terms that ensure democratic control by their members and maintain their co-operative autonomy.

5th Principle: Education, Training and Information - Co-operatives provide education and training for their members, elected representatives, managers, and employees so they can contribute effectively to the development of their co-operatives. They inform the general public - particularly young people and opinion leaders - about the nature and benefits of co-operation.

6th Principle: Co-operation Among Co-operatives - Co-operatives serve their members most effectively and strengthen the co-operative movement by working together through local, national, regional, and international structures.

7th Principle: Concern for Community - Co-operatives work for the sustainable development of their communities through policies approved by their members.

Appendix S - Part II Delegated Authority

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

1. Establishment of naming conventions to be used in the Sponsored TLD.
2. Restrictions on what types of people or entities may register Domain Names (which need not be uniform for all names within the Sponsored TLD), provided the scope of the Charter is not exceeded.
3. Restrictions on how Registered Names may be used (which need not be uniform for all names within the Sponsored TLD), provided the scope of the Charter is not exceeded.
4. Performance of Eligibility and Name-Selection Services (ENS Services), either directly by the Sponsor or by one or more organizations or individuals to which it delegates the responsibility for performing ENS Services.
5. Mechanisms for enforcement of the restrictions in items 2 and 3, including procedures for revocation or cancellation of registrations. See also Subsection 3.1(d)(i)(B).
6. Mechanisms for resolution of disputes concerning eligibility and of disputes between owners of rights (who may or may not be registrants) in names and registrants, that do not supplant ICANN's dispute-resolution policies or remedies that may be available under law.
7. Selection of Registry Operator (back-end registry provider) and establishment of the terms of agreement between the Sponsor and the provider.
8. Selection of other service providers.
9. Functional and performance specifications for Sponsor Services.
10. Pricing of Sponsor Services.

11. Modifications of Sponsor Services that do not represent material changes to approved Sponsor Services.
12. Matters concerning the operation of the registry for the Sponsored TLD.
13. Selection of ICANN-Accredited Registrars to act as registrars for the Sponsored TLD, consistent with Part IV of this Appendix S.
14. Terms of agreement to be offered by the Sponsor to ICANN-Accredited Registrars selected by Sponsor, including provisions for fair treatment by the Sponsor and the Registry Operator of those registrars.
15. Practices of ICANN-Accredited Registrars selected by Sponsor with respect to (a) Registered Names and their registration and (b) other Sponsor Services and (c) Registry technical platform, including limiting their access to the registration system due to abuses on those areas, subject to Section 7.1 of the TLD Sponsorship Agreement.
16. Terms of agreement between registrars and registrants under which Registered Names are registered.
17. Uses and practices by registrants with respect to Registered Names.
18. Provisions for publication of registry and registrar data consistent with the TLD Sponsorship Agreement and Registrar Accreditation Agreements.
19. Terms of agreement between or among Sponsor, Registry Operator, registrars, and registrants necessary to give effect to the above.
20. Reservation of names to be withheld from general registration in the sTLD (in addition to those names reserved by ICANN and set forth in Appendix 6).
21. Other areas of responsibility as agreed to in writing by both ICANN and Sponsor.
22. Any other policies or practices not inconsistent with the Agreement, ICANN Temporary Specifications and Policies, or Consensus Policies as applicable.

Appendix S – Part III

Description of Sponsored TLD Community

The .coop TLD is intended to serve the needs of the international cooperative community, which consists of those persons or entities eligible to register in the .coop TLD pursuant to the Charter (Part I to this Appendix S).

Appendix S – Part IV Selection of Registrars

Sponsor will select among ICANN-accredited registrars wishing to register domain names in the Sponsored TLD in a manner that promotes the following characteristics:

1. Recognition of the public-benefit nature of the .coop TLD and demonstrated willingness to participate in providing registrar services to registrants in that spirit;
2. Thorough and demonstrated understanding of the principles and intentions underlying .coop TLD policies;
3. Demonstrated familiarity with the needs of the cooperative community;
4. Demonstrated familiarity with the particular requirements of cooperatives in the language and region(s) served by the registrar;
5. Established business relationships with substantial numbers (proportionate to the size of the registrar) of cooperatives or with organizations representing the cooperative community in the region(s) served by the registrar;
6. Demonstrated willingness and ability to publicize and market the .coop TLD, and to follow all .coop TLD marketing guidelines and to use its materials as appropriate;
7. Contractual commitment to remit a stated portion (established by the Sponsor from time to time on a uniform basis) of any registrar service fees received to the Sponsor's Digital Divide Fund or, in lieu thereof, to make a stated initial contribution to such fund, proportionate to the size of the registrar;
8. Demonstration that sufficient staff resources are available and ability to interface with automated and manual elements of the .coop TLD registry process;

9. Demonstrated systems designed to avoid submission of unqualified or incomplete applications that will burden the ENS system or make it impossible for the Sponsor to fulfill its commitments to ICANN;
10. Demonstrated systems designed to avoid any disputes regarding transfers among registrars and acceptance of any Sponsor policies and procedures established in that regard;
11. Acceptance of Sponsor policies and designated procedures for grace periods for registrants;
12. Demonstrated willingness to share with the Sponsoring Organization contact information concerning .coop registrants;
13. Willingness to provide reduced fee or free services to cooperatives from developing countries who meet minimum criteria (established by Sponsor) for special assistance; and
14. Willingness and ability to post and refresh a minimum deposit against which fees will be drawn.

Sponsor will periodically review and as appropriate revise its selection of registrars. Sponsor will accept applications from any ICANN-accredited Registrar and will enter into agreements with Registrars only after a decision with respect to the selection of each applicant to serve as a Registrar based on all of the above criteria and will periodically review and, as appropriate, revise its selection of Registrars based on such criteria.

Appendix S – Part V Public Whois Specification

Subject to Sponsor's compliance with this .coop TLD Registry Agreement, including all attachments and appendices thereto (the "Agreement") and any Temporary Specifications or Policies or Consensus Policies as defined in the Agreement, and provided the scope of the Charter is not exceeded Sponsor will ensure that the Registry Operator will implement the following Public Whois Specification.

SPECIFICATION

Subject to any future policy regarding Whois data adopted by ICANN, domain name registrants will be required to provide correct contact information and, as permitted by applicable law, consent to selected information being made public for legitimate purposes.

Until a generally accepted specification replacing RFC 3912 is available, the Registry will provide RFC 3912-compliant Whois service. The specification contained in this Part V to Appendix S is subject to change by agreement of the Registry and ICANN during the design process as well as during the IETF standards process. However, the following provides the target architecture and initial functionality. In addition, Registry agrees to implement changes to this specification specified by ICANN to conform to IETF provreg working group's protocol specification no later than 135 days after the IETF specification is adopted as a Proposed Standard [RFC 2026, section 4.1.1].

Whois Data Management

This draws on the contents of the registry databases. It dynamically generates or deletes Whois records. These are periodically uploaded to the publicly visible Whois Servers.

Whois service features summary

- Standard protocol accessible over TCP on port 43
- Consistent format (fields and formatting) for all registrars

- Near real-time updates, and the ability to change update time easily if required
- Extensible field capability
- Servers return a single response per .coop domain name unless required to hold connection via holdconnection directive
- Whois service expandable through use of directives
- Load balanced for high availability, high load
- Network redundancy for high availability, high load
- Multiple servers for zero down time maintenance

Whois service data elements

These include:

- The name of the domain name registered
- The IP addresses of the primary Name Server and secondary Name Server(s) of the .coop domain name registered
- The corresponding names of those Name Servers
- The identity of the registrar
- The original creation date
- Date of last modification
- Contact information for the registrant, administrative, technical, and billing contacts

Whois Queries

The Whois service will work with any RFC 3912 compliant Whois client and is designed to be as simple as possible.

The input to the Whois server consists of two parts: the options and the query itself.

If the search parameter is "?" (without the quotes), and no object type is given, no search is performed and a short summary about the input format is returned.

The -b option allows the user to specify the number of characters on a line output by the WHOIS server.

By default, the Whois service searches for domain names. By the following keywords, the search type can be determined:

- Domain: Search only by domain objects. The input string is searched in the Name field.
- Contact: Search only contact objects. The input string is searched in the ID field.
- Nameserver: Search only nameserver objects. The input string is searched in the nameserver name field and the IP address field.
- Registrar: Search only registrar objects. The input string is searched in the Name field.

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

Notes

Queries can be made as either an "exact search" or as a "partial search", both of which are insensitive to the case of input string.

An exact search specifies the full string to search for in the database field. An exact match between the input string and the field value is required. For example "dotcoop.coop" will only match with "dotcoop.coop".

A partial search specifies the start of the string to search for in the database field. Every record with a search field that starts with the input string will be considered a match.

To initiate partial searches the asterisk wildcard is used "*". For example "dot*" will match with "dotcoop.coop" as well as "dotcooperation.coop". The Wild card query can be used in the front and/or end of the search string. By default, if multiple matches are found for a query, then full details of all matching results are presented.

Client/Server Session for Query

- The client connects to the server
- The server returns the dotCoop banner
- The client sends one or more directives to the server

- The server returns the response to each directive
- The client finally sends a query to the server
- The server returns the query results
- The server closes the connection, unless the client has directed not to close the connection.

Whois Output Fields

This section describes the output fields provided for each type of object.

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

Domain ID

Domain Name

Sponsoring Registrar

Domain Status

Registrant, Administrative, Technical and Billing Contact Information including:

Contact ID

Contact Name

Contact Organization

Contact Address (3 Street Fields), City, State/Province, Country

Contact Postal Code

Contact Phone, Fax, E-mail

Names of nameservers associated with this domain

Created by Registrar

Last Updated by Registrar

Last Transferred Date

Additional fields (Registrar specified)

Domain Registration Date

Domain Expiration Date

Domain Last Updated Date

Nameserver Record:

Nameserver ID

Nameserver name

Currently Associated (true/false)
Nameserver status
IP addresses associated
Sponsoring Registrar
Created by Registrar
Last Updated by Registrar
Last Transferred Date
Additional fields (Registrar specified)

Contact Record:

Contact ID
Contact Name
Contact Organization
Contact Address (3 Street Fields), City, State/Province, Country
Contact Postal Code
Contact Phone, Fax, E-mail
Currently Associated
Contact Status
ENS Identity
Sponsoring Registrar
Created Registrar
Contact Registration Date
Contact Last Updated Date
Last Transferred Date

Registrar Record:

Registrar ID (conforming to IANA registrar-id registry)
Registrar Name
Registrar Status
Registrar Address (3 Street Fields), City, State/Province, Country
Registrar Postal Code
Registrar Phone, Fax, E-mail
Registrar Administrative Contact(s)
Registrar Technical Contact(s)
Registrar Billing Contact(s)

Sample Whois Output

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

Domain Record:

Input:

whois "domain test.coop"

or

whois "test.coop"

Output:

Domain ID:	1234D-COOP
Domain Name:	test.coop
Expiry Date:	30 Jan 2007 00:00:00 UTC
Domain Status:	clientRenewProhibited
Sponsoring registrar:	test-registrar
Sponsoring registrar ID:	123
Created by:	test-registrar
Created by ID:	123
Last updated by:	test-registrar
Last updated by ID:	123
Created:	09 Jul 2001 22:26:07 UTC
Last updated:	26 Jul 2006 13:52:55 UTC
Last transferred:	

Contact Type:	registrant
Contact ID:	56789C-COOP
Name:	FN Lastname
Organisation:	Test Co-op
Street 1:	Address 1a
Street 2:	Address 1b
Street 3:	Address 1c
City:	City Name

State/Province: State Code
Postal code: Postal Code
Country: Country Name
Voice: +1.1231231234
Voice extn:
Fax: +1.1231231234
Fax extn:
Email: fnlastname@test.coop

Contact Type: admin
Contact ID: 13567C-COOP
Name: FN Lastname
Organisation: Test Co-op
Street 1: Address 1a
Street 2: Address 1b
Street 3: Address 1c
City: City Name
State/Province: State Code
Postal code: Postal Code
Country: Country Name
Voice: +1.1231231234
Voice extn:
Fax: +1.1231231234
Fax extn:
Email: fnlastname@test.coop

Contact Type: billing
Contact ID: 09876C-COOP
Name: FN Lastname
Organisation: Test Co-op
Street 1: Address 1a
Street 2: Address 1b
Street 3: Address 1c
City: City Name
State/Province: State Code
Postal code: Postal Code
Country: Country Name
Voice: +1.1231231234
Voice extn:
Fax: +1.1231231234

Fax extn:
Email: fnlastname@test.coop

Contact Type: tech
Contact ID: 97531C-COOP
Name: FN Lastname
Organisation: Test Co-op
Street 1: Address 1a
Street 2: Address 1b
Street 3: Address 1c
City: City Name
State/Province: State Code
Postal code: Postal Code
Country: Country Name
Voice: +1.1231231234
Voice extn:
Fax: +1.1231231234
Fax extn:
Email: fnlastname@test.coop

Host ID: 42003H-COOP
Host Name: ns1.testhost.coop

Host ID: 42004H-COOP
Host Name: ns2.testhost.coop

Contact Record:

Input:

whois "contact 56789C-COOP"

Output:

Contact ID: 56789C-COOP
Sponsoring registrar: test-registrar
Sponsoring registrar ID: 123
Created by: test-registrar

Created by ID: 123
Last updated by:
Last updated by ID:
Created: 28 Oct 2005 09:44:07 UTC
Last updated:
Last transferred:

Name: FN Lastname
Organisation: Test Co-op
Street 1: Address 1a
Street 2: Address 1b
Street 3: Address 1c
City: City Name
State/Province: State Code
Postal code: Postal Code
Country: Country Name
Voice: +1.1231231234
Voice extn:
Fax: +1.1231231234
Fax extn:
Email: fnlastname@test.coop

Nameserver Record:

Input:

whois "nameserver ns1.testhost.coop"
or
whois "host ns1.testhost.coop"

Output:

Host ID: 42003H-COOP
Nameserver Name: ns1.testhost.coop
Sponsoring registrar: test-registrar
Sponsoring registrar ID: 123

Created by: test-registrar
Created by ID: 123
Last updated by:
Last updated by ID:
Created: 10 Mar 2005 04:52:22 UTC
Last updated:
Last transferred:

IP Address: 10.10.10.10

Registrar Record:

Input:

whois "registrar test-registrar"

Output:

Registrar Name: test-registrar
Registrar ID: 123

Contact Type: admin
Name: Registrar Name
Organisation: Registrar Company Name
Street 1: Address 1a
Street 2: Address 1b
Street 3: Address 1c
City: City Name
State/Province: State Code
Postal code: Postal Code
Country: Country Name
Voice: +1.1231231234
Voice extn:
Fax: +1.1231231234
Fax extn:
Email: registrarsname@registrarcompanyname.coop

Contact Type: billing
Name: Registrar Name

Organisation: Registrar Company Name
Street 1: Address 1a
Street 2: Address 1b
Street 3: Address 1c
City: City Name
State/Province: State Code
Postal code: Postal Code
Country: Country Name
Voice: +1.1231231234
Voice extn:
Fax: +1.1231231234
Fax extn:
Email: registraname@registrarcompanyname.coop

Contact Type: legal
Name: Registrar Name
Organisation: Registrar Company Name
Street 1: Address 1a
Street 2: Address 1b
Street 3: Address 1c
City: City Name
State/Province: State Code
Postal code: Postal Code
Country: Country Name
Voice: +1.1231231234
Voice extn:
Fax: +1.1231231234
Fax extn:
Email: registraname@registrarcompanyname.coop

Contact Type: tech
Name: Registrar Name
Organisation: Registrar Company Name
Street 1: Address 1a
Street 2: Address 1b
Street 3: Address 1c
City: City Name
State/Province: State Code
Postal code: Postal Code
Country: Country Name

Voice: +1.1231231234
Voice extn:
Fax: +1.1231231234
Fax extn:
Email: registraname@registrarcompanyname.coop

Appendix S – Part VI

Existing Sponsor Services

As of the Effective Date of this contract, the Sponsor offers the current sponsor service to their registrants:

- Active Domain Directory – currently at www.directory.coop, the Sponsor provides a directory, searchable by various data elements, of all active .coop domains.