

Extensible Provisioning Protocol (EPP) Domain Name Mapping Extension for Bundling Registration

`draft-ietf-regext-bundling-registration-00.txt`

CNNIC

Use Cases

- V-label.TLD
 - different labels ending with the same TLD
 - 清华大学.cn == 清華大学.cn
- LABEL.V-tld
 - same label ending with different TLDs
 - example.ong == example.ngo

Requirements

- Bundled names normally share the following parameters or attributes:
 - Registrar Ownership
 - Registration and Expiry Dates
 - Registrant, Admin, Billing, and Technical Contacts
 - Name Server Association
 - Domain Status
 - Applicable grace periods (Add Grace Period, Renewal Grace Period, Auto-Renewal Grace Period, Transfer Grace Period, and Redemption Grace Period)

- The following definitions are used in this document:
 - Registered Domain Name (RDN), represents the valid domain name that users submitted for registration in the first time.
 - Bundled Domain Name (BDN), represents the bundled domain name produced according to the bundled domain name registration policy.

EPP commands extension

- Because the domain names are bundled and share the same parameters or attributes, the EPP command should do some processing for these requirements:
 - When check, either RDN or BDN can be queried for the EPP command, and will return the same response.
 - When info, either RDN or BDN can be queried, the same response will include both BDN and RDN information with the same attributes.
 - When Create, either RDN or BDN will be accepted. If the domain name is available, both BDN and RDN will be registered.
 - When Delete, either RDN or BDN will be accepted. If the domain name is available, both BDN and RDN will be deleted.
 - When renew, either RDN or BDN will be accepted. Upon a successful domain renewal, both BDN and RDN will have their expiry date extended by the requested term. Upon a successful domain renewal, both BDN and RDN will conform to the same renew grace period.
 - When transfer, either RDN or BDN will be accepted. Upon successful completion of a domain transfer request, both BDN and RDN will enter a pending Transfer status. Upon approval of the transfer request, both BDN and RDN will be owned and managed by the same new registrant.
 - When update, either RDN or BDN will be accepted. Any modifications to contact associations, name server associations, domain status values and authorization information will be applied to both BDN and RDN.

Examples

- Example <check> Response for an authorized client:

```
S:<?xml version="1.0" encoding="UTF-8" standalone="no"?>
S:<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
S:  <response>
S:    <result code="1000">
S:      <msg>Command completed successfully</msg>
S:    </result>
S:    <resData>
S:      <domain:chkData
S:        xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
S:      <domain:cd>
S:        <domain:name avail="1"> xn--fsq270a.example</domain:name>
S:      </domain:cd>
S:      <domain:cd>
S:        <domain:name avail="1"> xn--fsq41a.example</domain:name>
S:        <domain:reason>This associated domain name is a produced name based on bundle name policy.</domain:reason>
S:      </domain:cd>
S:    </domain:chkData>
S:  </resData>
S:  <trID>
S:    <clTRID>ABC-12345</clTRID>
S:    <svTRID>54322-XYZ</svTRID>
S:  </trID>
S: </response>
S: </epp>
```

- Example <create> command:

```
C:<?xml version="1.0" encoding="UTF-8" standalone="no"?>
C:<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
C:  <command>
C:    <create>
C:      <domain:create
C:        xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
C:        <domain:name>xn--fsq270a.example</domain:name>
C:        <domain:period unit="y">2</domain:period>
C:        <domain:registrant>123</domain:registrant>
C:        <domain:contact type="admin">123</domain:contact>
C:        <domain:contact type="tech">123</domain:contact>
C:        <domain:authInfo>
C:          <domain:pw>2fooBAR</domain:pw>
C:        </domain:authInfo>
C:      </domain:create>
C:    </create>
C:  <extension>
C:    <b-dn:create
C:      xmlns:b-dn="urn:ietf:params:xml:ns:b-dn-1.0">
C:      <b-dn:rdn uLabel="U+5B9E""U+4F8B".example>
C:        xn--fsq270a.example</b-dn:rdn>
C:      </b-dn:create>
C:    </extension>
C:  <clTRID>ABC-12345</clTRID>
C: </command>
C:</epp>
```

- Example <create> Response for an authorized client:

```
S:<?xml version="1.0" encoding="UTF-8" standalone="no"?>
S:<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
S:  <response>
S:    <result code="1000">
S:      <msg>Command completed successfully</msg>
S:    </result>
S:    <resData>
S:      <domain:creData
S:        xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
S:        <domain:name>xn--fsq270a.example</domain:name>
S:        <domain:crDate>1999-04-03T22:00:00.0Z</domain:crDate>
S:        <domain:exDate>2001-04-03T22:00:00.0Z</domain:exDate>
S:      </domain:creData>
S:    </resData>
S:    <extension>
S:      <b-dn:creData
S:        xmlns:b-dn="urn:ietf:params:xml:ns:b-dn-1.0">
S:        <b-dn:bundle>
S:          <b-dn:rdn uLabel="U+5B9E""U+4F8B".example
S:            >xn--fsq270a.example</b-dn:rdn>
S:          <b-dn:bdn uLabel="U+5BE6""U+4F8B".example
S:            >xn--fsqz41a.example</b-dn:bdn>
S:        </b-dn:bundle>
S:      </b-dn:creData>
S:    </extension>
S:    <trID>
S:      <clTRID>ABC-12345</clTRID>
S:      <svTRID>54322-XYZ</svTRID>
S:    </trID>
S:  </response>
S:</epp>
```


If any comments to the draft,
pls send it to the authors of
the draft or mailinglist.

Thanks

Related Activity: Next Step

- From bundled domain name registration to bundled domain name DNS resolution
- Bar BOF in this IETF meeting (done)
- BOF meeting in the next IETF meeting

Questions/comments?

Thanks