

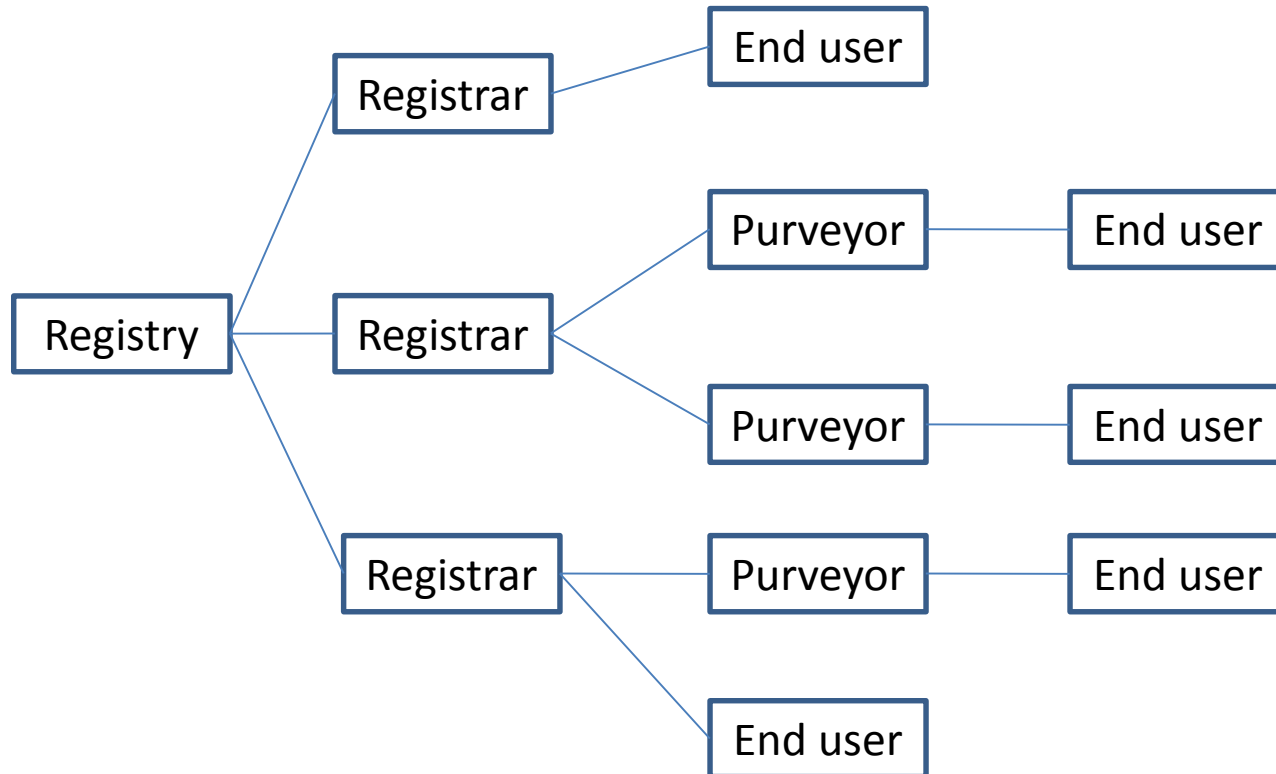
# Proposal for EPP Extension of Purveyor

Ning Kong

ROW@Dallas

March 22, 2015

# Background of Purveyor Extension

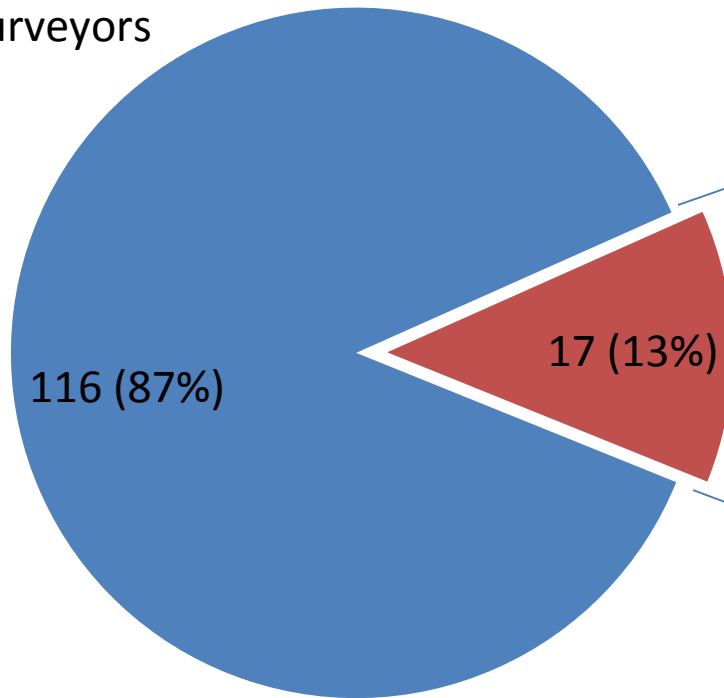


Purveyor: domain reseller who help registrar to sell domains to end users.

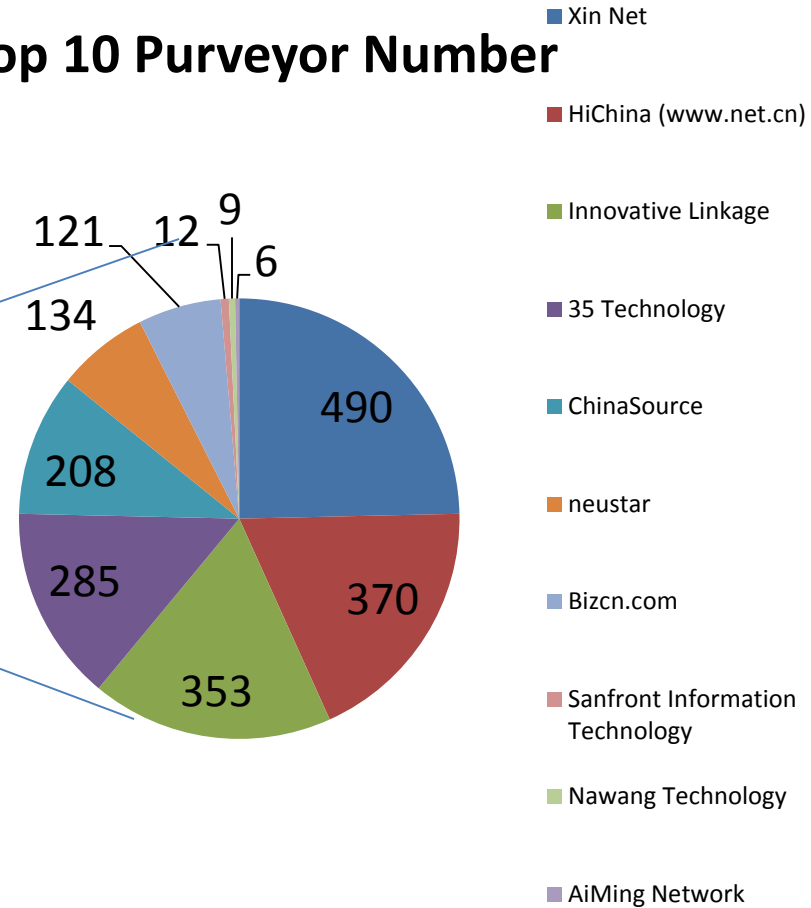
# Background of Purveyor Extension

## 133 Registrars of CNNIC

- no purveyors
- having purveyors



## Top 10 Purveyor Number



# Problem Statement

- CNNIC's registrars may have lots of purveyors to help them sell domains
- Purveyors provide registration information via registrar's EPP client
- Registrars are concerned about how to identify purveyors in CNNIC's EPP server
- End users would be confused by the WHOIS service without corresponding purveyor information
- No definition of purveyor in existing EPP mappings
- Out of band method may increase cost

# Proposed Solution

- RFC 5731 extension
  - <cnnic-domain:purveyor>
- RFC 5732 extension
  - <cnnic-host:purveyor>
- RFC 5733 extension
  - <cnnic-contact:purveyor>

# Example I (Domain Create)

```
C: <?xml version="1.0" encoding="UTF-8"?>
C: <epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
C:   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0 epp-1.0.xsd">
C:   <command>
C:     <create>
C:       <domain:create
C:         xmlns:domain="urn:ietf:params:xml:ns:domain-1.0" xsi:schemaLocation="urn:ietf:params:xml:ns:domain-1.0 domain-
C:         1.0.xsd">
C:         ...
C:       </domain:create>
C:     </create>
C:     <extension>
C:       <cnnic-domain:create
C:         xmlns:cnnic-domain="urn:ietf:params:xml:ns:cnnic-domain-1.0" xsi:schemaLocation="urn:ietf:params:xml:ns:cnnic-
C:         domain-1.0 cnnic-domain-1.0.xsd">
C:         <cnnic-domain:purveyor>mypurveyor</cnnic-domain:purveyor>
C:       </cnnic-domain:create>
C:     </extension>
C:   <clTRID>ABC-12345</clTRID>
C: </command>
C: </epp>
```

# Example II (Domain Info)

```
S: <?xml version="1.0" encoding="UTF-8" standalone="no" ?>
S: <epp xmlns="urn:ietf:params:xml:ns:epp-1.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0 epp-1.0.xsd">
S: <response>
S: <result code="1000">
S: <msg lang="en-US">Command completed successfully</msg>
S: </result>
S: <resData>
    ...
S: </resData>
S: <extension>
S: <rgp:infData xmlns:rgp="urn:ietf:params:xml:ns:rgp-1.0" xsi:schemaLocation="urn:ietf:params:xml:ns:rgp-1.0 rgp-1.0.xsd">
S: <rgp:rgpStatus s="addPeriod"/>
S: </rgp:infData>
S: <cnnic-domain:infData xmlns:cnnic-domain="urn:ietf:params:xml:ns:cnnic-domain-1.0"
    xsi:schemaLocation="urn:ietf:params:xml:ns:cnnic-domain-1.0 cnnic-domain-1.0.xsd">
S: <cnnic-domain:purveyor>mypurveyor</cnnic-domain:purveyor>
S: </cnnic-domain:infData>
S: </extension>
S: <trID>
S: <clTRID>ngcl-lvjzMZc</clTRID>
S: <svTRID>test142AWQONJZ</svTRID>
S: </trID>
S: </response>
S: </epp>
```

# Example III (Host Create)

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0 epp-1.0.xsd">
  <command>
    <create>
      <host:create xmlns:host="urn:ietf:params:xml:ns:host-1.0" xsi:schemaLocation="urn:ietf:params:xml:ns:host-1.0 host-1.0.xsd">
        <host:name>ns.xiexin.xn--55qx5d</host:name>
        <host:addr ip="v4">218.241.111.100</host:addr>
        <host:addr ip="v6">127::100</host:addr>
      </host:create>
    </create>
    <extension>
      <cnnic-host:create xmlns:cnnic-host="urn:ietf:params:xml:ns:cnnic-host-1.0"
        xsi:schemaLocation="urn:ietf:params:xml:ns:cnnic-host-1.0 cnnic-host-1.0.xsd">
        <cnnic-host:purveyor>mypurveyor</cnnic-host:purveyor>
      </cnnic-host:create>
    </extension>
    <clTRID>ABC-12345</clTRID>
  </command>
</epp>
```



# Example IV (Contact Create)

```
C: <?xml version="1.0" encoding="UTF-8"?>
C: <epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
C:   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0 epp-1.0.xsd">
C:   <command>
C:     <create>
C:       <contact:create
C:         xmlns:contact="urn:ietf:params:xml:ns:contact-1.0" xsi:schemaLocation="urn:ietf:params:xml:ns:contact-1.0 contact-1.0.xsd">
C:           <contact:id>cnnic</contact:id>
C:           <contact:postallInfo type="int">
C:             <contact:name>cnnic</contact:name>
C:             <contact:org>cnnic</contact:org>
C:             <contact:addr>
C:               ...
C:             </contact:addr>
C:           </contact:postallInfo>
C:           <contact:voice>+86.1058813000</contact:voice>
C:           <contact:fax>+86.1058813001</contact:fax>
C:           <contact:email>support@cnnic.cn</contact:email>
C:           ...
C:         </contact:create>
C:       </create>
C:     <extension>
C:       <cnnic-contact:create
C:         xmlns:cnnic-contact="urn:ietf:params:xml:ns:cnnic-contact-1.0" xsi:schemaLocation="urn:ietf:params:xml:ns:cnnic-contact-1.0 cnnic-contact-1.0.xsd">
C:           <cnnic-contact:purveyor>mypurveyor</cnnic-contact:purveyor>
C:         </cnnic-contact:create>
C:       </extension>
C:     <clTRID>ABC-12345</clTRID>
C:   </command>
C: </epp>
```

# Proposal for EPP Extension of NewG Front-end Registry

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# Background

- CNNIC provides back-end domain registry service to new gTLD registrants
- CNNIC is also an accredited EBERO (Emergency Back-end Registry Operators)
- Some new third-party gTLD registries are currently operated by CNNIC
  - .信息
  - .广东
  - .佛山

# Problem Statement

- Considering convenience of implementation and operation cost, one registration platform is provided for multiple new gTLD registries
- Following scenarios may cause duplicate contact ID or host name
  - Different registries may allocate the same contact ID to different registrars
  - Different registrars may create the same contact ID or host name in different registries
- Need to identify front-end registries, but no such information can be provided in existing EPP mappings

# Proposed Solution

- RFC 5732 extension
  - <cnnic-host:registry>
- RFC 5733 extension
  - <cnnic-contact:registry>

# Example I (Host Create)

```
C: <?xml version="1.0" encoding="UTF-8"?>
C: <epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
C:   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0
C:   epp-1.0.xsd">
C:   <command>
C:     <create>
C:       <host:create xmlns:host="urn:ietf:params:xml:ns:host-1.0" xsi:schemaLocation="urn:ietf:params:xml:ns:host
C:       1.0 host-1.0.xsd">
C:         <host:name>ns.xiexin.xn--55qx5d</host:name>
C:         <host:addr ip="v4">218.241.111.100</host:addr>
C:         <host:addr ip="v6">127::100</host:addr>
C:       </host:create>
C:     </create>
C:     <extension>
C:   <cnnic-host:create xmlns:cnnic-host="urn:ietf:params:xml:ns:cnnic-host-1.0"
C:     xsi:schemaLocation="urn:ietf:params:xml:ns:cnnic-host-1.0 cnnic-host-1.0.xsd">
C:       <cnnic-host:registry>cnnic</cnnic-host:registry>
C:     </cnnic-host:create>
C:   </extension>
C:   <clTRID>ABC-12345</clTRID>
C: </command>
C: </epp>
```

# Example II (Contact Create)

```
C: <?xml version="1.0" encoding="UTF-8"?>
C: <epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
C: xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0 epp-1.0.xsd">
C: <command>
C: <create>
C: <contact:create
C:   xmlns:contact="urn:ietf:params:xml:ns:contact-1.0" xsi:schemaLocation="urn:ietf:params:xml:ns:contact-1.0 contact-1.0.xsd">
C:   <contact:id>example</contact:id>
C:   <contact:postalInfo type="int">
C:     ...
C:   </contact:postalInfo>
C:   <contact:voice x="1234">+1.7035555555</contact:voice>
C:   <contact:fax>+1.7035555556</contact:fax>
C:   <contact:email>test@example.cn</contact:email>
C:   <contact:authInfo>
C:     <contact:pw roid="fdsdfs-fdsffd">2fooBAR</contact:pw>
C:   </contact:authInfo>
C: </contact:create>
C: </create>
C: <extension>
C: <cnnic-contact:create xmlns:cnnic-contact="urn:ietf:params:xml:ns:cnnic-contact-1.0"
C:   xsi:schemaLocation="urn:ietf:params:xml:ns:cnnic-contact-1.0 cnnic-contact-1.0.xsd">
C:   <cnnic-contact:registry>cnnic</cnnic-contact:registry>
C: </cnnic-contact:create>
C: </extension>
C: <clTRID>ABC-12345</clTRID>
C: </command>
C: </epp>
```

Comments?

Thank you!