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Reseller Extension for the Extensible Provisioning Protocol (EPP)
draft-ietf-regext-reseller-ext-01

Abstract

This mapping, an extension to EPP object mappings like the EPP domain name mapping [[RFC5731](#)], to support assigning a reseller to any existing object (domain, host, contact) as well as any future objects. Specified in Extensible Markup Language (XML), this extended mapping is applied to provide additional features required for the provisioning of resellers.

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[1. Introduction](#)

Domain resellers are the individuals or companies act as agents for ICANN accredited registrars. A domain name registrar may have several resellers to help them sell domain names to end users.

Generally speaking, resellers provide domain registration information via registrar's EPP client without reseller information. On one hand, registrars are concerned about how to identify resellers. On the other hand, end users would also be confused by the WHOIS service without corresponding reseller information. This requirement imposes a challenge for the domain registries since there is no definition of resellers in the existing EPP domain name mapping. Out of band method could solve this problem but may increase extra cost.

In order to facilitate provisioning and management of reseller information in a shared central repository, this document proposes a reseller extension of [[RFC5731](#)], [[RFC5732](#)] and [[RFC5733](#)]. The examples provided in this document are used for the domain object for illustration purposes. The host and contact object could be extended in the same way with the domain object.

A reseller mapping object defined in [[ID.draft-ietf-regext-reseller](#)] SHOULD be created first. The reseller information specified in this document SHOULD reference the existing reseller identifier and reseller name.

This document is specified using the XML 1.0 as described in [[W3C.REC-xml-20040204](#)] and XML Schema notation as described in [[W3C.REC-xmlschema-1-20041028](#)] and [[W3C.REC-xmlschema-2-20041028](#)].

[2. Conventions Used in This Document](#)

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 [[RFC2119](#)].

In examples, "C:" represents lines sent by a protocol client and "S:" represents lines returned by a protocol server. Indentation and white space in examples are provided only to illustrate element relationships and are not a REQUIRED feature of this specification.

XML is case sensitive. Unless stated otherwise, XML specifications and examples provided in this document MUST be interpreted in the character case presented to develop a conforming implementation.

resellerext-1.0 in this document is used as an abbreviation for urn:ietf:params:xml:ns:resellerext-1.0.

[3.](#) Object Attributes

This extension adds additional elements to the EPP domain name mapping [[RFC5731](#)]. Only the new elements are described here.

[3.1.](#) Reseller Identifier

Reseller identifier provides the ID of the reseller of a sponsoring registrar. Its corresponding element is <resellerext:id> which refers to the <reseller:id> element defined in [[ID.draft-ietf-regext-reseller](#)]. All reseller objects are identified by a server-unique identifier

[3.2.](#) Reseller Name

Reseller name provides the name of the reseller of a sponsoring registrar. Its corresponding element is <resellerext:name> which refers to the <reseller:name> element defined in [[ID.draft-ietf-regext-reseller](#)].

[4.](#) EPP Command Mapping

A detailed description of the EPP syntax and semantics can be found in the EPP core protocol specification [[RFC5730](#)]. The command mappings described here are specifically for use in provisioning and managing reseller information via EPP.

[4.1.](#) EPP Query Commands

EPP provides three commands to retrieve domain information: <check> to determine if a domain object can be provisioned within a repository, <info> to retrieve detailed information associated with a domain object, and <transfer> to retrieve domain-object transfer status information.

[4.1.1.](#) EPP <check> Command

This extension does not add any elements to the EPP <check> command or <check> response described in the EPP domain name mapping [[RFC5731](#)], host mapping [[RFC5732](#)] and contact mapping [[RFC5733](#)].

[4.1.2.](#) EPP <info> Command

This extension does not add any element to the EPP <info> command described in the EPP domain mapping [[RFC5731](#)], host mapping [[RFC5732](#)] and contact mapping [[RFC5733](#)]. However, additional elements are defined for the <info> response.

Example <info> 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:    <info>
C:      <domain:info xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
C:        <domain:name>example.com</domain:name>
C:        <domain:authInfo>
C:          <domain:pw>fooBAR</domain:pw>
C:        </domain:authInfo>
C:      </domain:info>
C:    </info>
C:  <clTRID>ngcl-mIFICBNP</clTRID>
C: </command>
C:</epp>
```

When an <info> command has been processed successfully, the EPP <resData> element MUST contain child elements as described in the EPP domain mapping [[RFC5731](#)], host mapping [[RFC5732](#)] and contact mapping

[RFC5733]. In addition, the EPP <extension> element SHOULD contain a child <resellerext:infData> element that identifies the extension namespace if the domain object has data associated with this extension and based on its service policy. The <resellerext:infData> element contains the following child elements:

- o A <resellerext:id> element that contains the identifier of the reseller of a sponsoring registrar.

Example <info> 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 lang="en-US">Command completed successfully</msg>
S:   </result>
S:   <resData>
S:     <domain:infData xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
S:       <domain:name>example.com</domain:name>
S:       <domain:roid>EXAMPLE1-REP</domain:roid>
S:       <domain:status s="ok"/>
S:       <domain:registrant>jd1234</domain:registrant>
S:       <domain:contact type="admin">sh8013</domain:contact>
S:       <domain:contact type="billing">sh8013</domain:contact>
S:       <domain:contact type="tech">sh8013</domain:contact>
```

```

S:      <domain:ns>
S:      <domain:hostObj>ns1.example.com</domain:hostObj>
S:      </domain:ns>
S:      <domain:clID>ClientX</domain:clID>
S:      <domain:crID>ClientY</domain:crID>
S:      <domain:crDate>2015-02-06T04:01:21.0Z</domain:crDate>
S:      <domain:exDate>2018-02-06T04:01:21.0Z</domain:exDate>
S:      <domain:authInfo>
S:      <domain:pw>2fooBAR</domain:pw>
S:      </domain:authInfo>
S:      </domain:infData>
S:      </resData>
S:      <extension>
S:      <rgp:infData xmlns:rgp="urn:ietf:params:xml:ns:rgp-1.0">
S:      <rgp:rgpStatus s="addPeriod"/>
S:      </rgp:infData>
S:      <resellerext:infData xmlns:resellerext="urn:ietf:params:xml:ns:resellerext">
S:      <resellerext:id>myreseller</resellerext:id>
S:      </resellerext:infData>
S:      </extension>
S:      <trID>
S:      <clTRID>ngcl-IvJjzMZc</clTRID>
S:      <svTRID>test142AWQONJZ</svTRID>
S:      </trID>
S:      </response>
S: </epp>

```

<info> response for the unauthorized client has not been changed, see [\[RFC5731\]](#), [\[RFC5732\]](#) and [\[RFC5733\]](#) for detail.

An EPP error response MUST be returned if an <info> command cannot be processed for any reason.

[4.1.3.](#) EPP <transfer> Command

This extension does not add any elements to the EPP <transfer> command or <transfer> response described in the EPP domain name mapping [\[RFC5731\]](#), host mapping [\[RFC5732\]](#) and contact mapping [\[RFC5733\]](#).

[4.2.](#) EPP Transform Commands

EPP provides five commands to transform domain objects: <create> to create an instance of a domain object, <delete> to delete an instance of a domain object, <renew> to extend the validity period of a domain object, <transfer> to manage domain object sponsorship changes, and <update> to change information associated with a domain object.

4.2.1. EPP <create> Command

This extension defines additional elements for the EPP <create> command described in the EPP domain mapping [[RFC5731](#)], host mapping [[RFC5732](#)] and contact mapping [[RFC5733](#)]. No additional elements are defined for the EPP <create> response.

The EPP <create> command provides a transform operation that allows a client to create a domain object. In addition to the EPP command elements described in the EPP domain mapping [[RFC5731](#)], host mapping [[RFC5732](#)] and contact mapping [[RFC5733](#)], the command MUST contain an <extension> element, and the <extension> element MUST contain a child <resellerext:create> element that identifies the extension namespace if the client wants to associate data defined in this extension to the domain object. The <resellerext:create> element contains the following child elements:

- o A <resellerext:id> element that contains the identifier of the reseller of a sponsoring registrar.

Example <create> Command:


```

C:<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
C:  <command>
C:    <create>
C:      <domain:create xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
C:        <domain:name>example.com</domain:name>
C:        <domain:period unit="y">3</domain:period>
C:        <domain:ns>
C:          <domain:hostObj>ns1.example.com</domain:hostObj>
C:        </domain:ns>
C:        <domain:registrant>jd1234</domain:registrant>
C:        <domain:contact type="tech">sh8013</domain:contact>
C:        <domain:contact type="billing">sh8013</domain:contact>
C:        <domain:contact type="admin">sh8013</domain:contact>
C:        <domain:authInfo>
C:          <domain:pw roid="dddd-dddd">fooBAR</domain:pw>
C:        </domain:authInfo>
C:      </domain:create>
C:    </create>
C:    <extension>
C:      <resellerext:create xmlns:resellerext="urn:ietf:params:xml:ns:resellerext-1.0">
C:        <resellerext:id>myreseller</resellerext:id>
C:      </resellerext:create>
C:    </extension>
C:    <clTRID>ABC-12345</clTRID>
C:  </command>
C:</epp>

```

When a <create> command has been processed successfully, the EPP response is as described in the EPP domain mapping [[RFC5731](#)], host mapping [[RFC5732](#)] and contact mapping [[RFC5733](#)].

An EPP error response MUST be returned if a <create> command cannot be processed for any reason.

[4.2.2.](#) EPP <delete> Command

This extension does not add any elements to the EPP <delete> command or <delete> response described in the EPP domain mapping [[RFC5731](#)], host mapping [[RFC5732](#)] and contact mapping [[RFC5733](#)].

[4.2.3.](#) EPP <renew> Command

This extension does not add any elements to the EPP <renew> command or <renew> response described in the EPP domain mapping [[RFC5731](#)], host mapping [[RFC5732](#)] and contact mapping [[RFC5733](#)].

[4.2.4.](#) EPP <transfer> Command

This extension does not add any elements to the EPP <transfer> command or <transfer> response described in the EPP domain mapping [RFC5731], host mapping [RFC5732] and contact mapping [RFC5733], but after a successful transfer of an object with an assigned reseller, the server SHOULD clear the assigned reseller value.

[4.2.5.](#) EPP <update> Command

This extension defines additional elements for the EPP <update> command described in the EPP domain mapping [RFC5731], host mapping [RFC5732] and contact mapping [RFC5733]. No additional elements are defined for the EPP <update> response.

The EPP <update> command provides a transform operation that allows a client to modify the attributes of a domain object. In addition to the EPP command elements described in the EPP domain mapping, the command MUST contain an <extension> element, and the <extension> element MUST contain a child <resellerext:update> element that identifies the extension namespace if the client wants to update the domain object with data defined in this extension. The <resellerext:update> element contains the following child elements:

- o An OPTIONAL <resellerext:add> element that contains attribute values to be added to the object.
- o An OPTIONAL <resellerext:rem> element that contains attribute values to be removed from the object.
- o An OPTIONAL <resellerext:chg> element that contains attribute values to be changed.

At least one and only one <resellerext:add>, <resellerext:rem> or <resellerext:chg> element MUST be provided. The <resellerext:add>, <resellerext:rem> and <resellerext:chg> elements contain the following child element:

- o A <resellerext:id> element that contains the identifier of the reseller of a sponsoring registrar.

Example <update> command, adding a reseller:

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```
C:<?xml version="1.0" encoding="UTF-8" standalone="no"?>
C:<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
C:  <command>
C:    <update>
C:      <domain:update xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
C:        <domain:name>example.com</domain:name>
C:      </domain:update>
C:    </update>
C:    <extension>
C:      <resellerext:update xmlns:resellerext="urn:ietf:params:xml:ns:resellere
C:        <resellerext:add>
C:          <resellerext:id>myreseller</resellerext:id>
C:        </resellerext:add>
C:      </resellerext:update>
C:    </extension>
C:    <clTRID>ABC-12345</clTRID>
C:  </command>
C:</epp>
```

Example <update> command, removing a reseller:

```
C:<?xml version="1.0" encoding="UTF-8" standalone="no"?>
C:<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
C:  <command>
C:    <update>
C:      <domain:update xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
C:        <domain:name>example.com</domain:name>
C:      </domain:update>
C:    </update>
C:    <extension>
C:      <resellerext:update xmlns:resellerext="urn:ietf:params:xml:ns:resellere
C:        <resellerext:rem>
C:          <resellerext:id>myreseller</resellerext:id>
C:        </resellerext:rem>
C:      </resellerext:update>
C:    </extension>
C:    <clTRID>ABC-12345</clTRID>
```

```
C: </command>
C:</epp>
```

Example <update> command, updating reseller identifier:

```
C:<?xml version="1.0" encoding="UTF-8" standalone="no"?>
C:<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
C:  <command>
C:    <update>
C:      <domain:update xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
C:        <domain:name>example.com</domain:name>
C:      </domain:update>
C:    </update>
C:    <extension>
C:      <resellerext:update xmlns:resellerext="urn:ietf:params:xml:ns:resellerext-1.0">
C:        <resellerext:chg>
C:          <resellerext:id>myreseller</resellerext:id>
C:        </resellerext:chg>
C:      </resellerext:update>
C:    </extension>
C:    <clTRID>ABC-12345</clTRID>
C:  </command>
C:</epp>
```

When an extended <update> command has been processed successfully, the EPP response is as described in the EPP domain name mapping [[RFC5731](#)], host mapping [[RFC5732](#)] and contact mapping [[RFC5733](#)].

5. Formal Syntax

An EPP object mapping is specified in XML Schema notation. The formal syntax presented here is a complete schema representation of the object mapping suitable for automated validation of EPP XML instances. The BEGIN and END tags are not part of the schema; they are used to note the beginning and ending of the schema for URI registration purposes.

BEGIN

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<schema targetNamespace="urn:ietf:params:xml:ns:resellerext-1.0"
  xmlns:resellerext="urn:ietf:params:xml:ns:resellerext-1.0"
  xmlns:epp="urn:ietf:params:xml:ns:epp-1.0"
  xmlns:eppcom="urn:ietf:params:xml:ns:eppcom-1.0"
  xmlns="http://www.w3.org/2001/XMLSchema"
  elementFormDefault="qualified">
```

```
<!--
```

```
Import common element types.
```

```
-->
```

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```
<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"/>
```

```
<annotation>
```

```
  <documentation>
```

```
    Extensible Provisioning Protocol v1.0
```

```
    Domain Reseller Extension Schema v1.0
```

```
  </documentation>
```

```
</annotation>
```

```
<!-- Child elements found in EPP commands. -->
```

```
  <element name="create" type="resellerext:createType"/>
```

```
  <element name="update" type="resellerext:updateType"/>
```

```
<!-- Child elements of the <resellerext:create> command
```

```
All elements must be present at time of creation
```

```
-->
```

```
  <complexType name="createType">
```

```
    <sequence>
```

```
      <!-- agent identifier that sells the domain, e.g. registrar, reseller -->
```

```
      <element name="id" type="eppcom:clIDType"/>
```

```
    </sequence>
```

```
  </complexType>
```

```

<!--
Child elements of <resellerext:update> command
-->

  <complexType name="updateType">
    <sequence>
      <element name="add" type="resellerext:addRemChgType" minOccurs="0"/>
      <element name="rem" type="resellerext:addRemChgType" minOccurs="0"/>
      <element name="chg" type="resellerext:addRemChgType" minOccurs="0"/>
    </sequence>
  </complexType>

  <complexType name="addRemChgType">
    <sequence>
      <!-- agent identifier that sells the domain, e.g. registrar, reseller -->
      <element name="id" type="eppcom:clIDType" minOccurs="0"/>
    </sequence>
  </complexType>

<!-- Child response element -->

  <element name="infData" type="resellerext:infDataType"/>

```

```

<!-- <resellerext:infData> response elements -->

```

```

  <complexType name="infDataType">
    <sequence>
      <!-- agent identifier that sells the domain, e.g. registrar, reseller -->
      <element name="id" type="eppcom:clIDType" minOccurs="0"/>
    </sequence>
  </complexType>

<!-- End of schema. -->
</schema>
END

```

6. Internationalization Considerations

EPP is represented in XML, which provides native support for encoding information using the Unicode character set and its more compact

representations including UTF-8. Conformant XML processors recognize both UTF-8 and UTF-16. Though XML includes provisions to identify and use other character encodings through use of an "encoding" attribute in an <?xml?> declaration, use of UTF-8 is RECOMMENDED.

As an extension of the EPP domain name mapping, the elements, element content described in this document MUST inherit the internationalization conventions used to represent higher-layer domain and core protocol structures present in an XML instance that includes this extension.

[7.](#) IANA Considerations

[7.1.](#) XML Namespace

This document uses URNs to describe XML namespaces and XML schemas conforming to a registry mechanism described in [[RFC3688](#)]. IANA is requested to assign the following URI.

Registration request for the reseller namespace:

- o URI: urn:ietf:params:xml:ns:reseller-1.0
- o Registrant Contact: See the "Author's Address" section of this document.
- o XML: See the "Formal Syntax" section of this document.

[7.2.](#) EPP Extension Registry

The EPP extension described in this document should be registered by the IANA in the EPP Extension Registry described in [[RFC7451](#)]. The details of the registration are as follows:

Name of Extension: Domain Reseller Extension

Document status: Standards Track

Reference: (insert reference to RFC version of this document)

Registrant Name and Email Address: See the "Author's Address" section of this document.

TLDs: any

IPR Disclosure: none

Status: active

Notes: none

8. Security Considerations

The object mapping extension described in this document does not provide any other security services or introduce any additional considerations beyond those described by [[RFC5730](#)], [[RFC5731](#)], [[RFC5732](#)] and [[RFC5733](#)] or those caused by the protocol layers used by EPP.

9. Acknowledgement

The authors would like to thank Rik Ribbers, Marc Groeneweg and Patrick Mevzek for their careful review and valuable comments.

10. References

10.1. Normative References

- [RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", [BCP 14](#), [RFC 2119](#), DOI 10.17487/RFC2119, March 1997, <<http://www.rfc-editor.org/info/rfc2119>>.
- [RFC3688] Mealling, M., "The IETF XML Registry", [BCP 81](#), [RFC 3688](#), DOI 10.17487/RFC3688, January 2004, <<http://www.rfc-editor.org/info/rfc3688>>.

- [RFC5730] Hollenbeck, S., "Extensible Provisioning Protocol (EPP)", STD 69, [RFC 5730](#), DOI 10.17487/RFC5730, August 2009, <<http://www.rfc-editor.org/info/rfc5730>>.

- [RFC5731] Hollenbeck, S., "Extensible Provisioning Protocol (EPP) Domain Name Mapping", STD 69, [RFC 5731](#), DOI 10.17487/RFC5731, August 2009, <<http://www.rfc-editor.org/info/rfc5731>>.
- [RFC5732] Hollenbeck, S., "Extensible Provisioning Protocol (EPP) Host Mapping", STD 69, [RFC 5732](#), DOI 10.17487/RFC5732, August 2009, <<http://www.rfc-editor.org/info/rfc5732>>.
- [RFC5733] Hollenbeck, S., "Extensible Provisioning Protocol (EPP) Contact Mapping", STD 69, [RFC 5733](#), DOI 10.17487/RFC5733, August 2009, <<http://www.rfc-editor.org/info/rfc5733>>.
- [RFC7451] Hollenbeck, S., "Extension Registry for the Extensible Provisioning Protocol", [RFC 7451](#), DOI 10.17487/RFC7451, February 2015, <<http://www.rfc-editor.org/info/rfc7451>>.
- [W3C.REC-xml-20040204]
Bray, T., Paoli, J., Sperberg-McQueen, C., Maler, E., and F. Yergeau, "'Extensible Markup Language (XML) 1.0 (Third Edition)", World Wide Web Consortium FirstEdition REC-xml-20040204", February 2004, <<http://www.w3.org/TR/2004/REC-xml-20040204>>.
- [W3C.REC-xmlschema-1-20041028]
Thompson, H., Beech, D., Maloney, M., and N. Mendelsohn, "'XML Schema Part 1: Structures Second Edition", World Wide Web Consortium Recommendation REC-xmlschema-1-20041028", October 2004, <<http://www.w3.org/TR/2004/REC-xmlschema-1-20041028>>.
- [W3C.REC-xmlschema-2-20041028]
Biron, P. and A. Malhotra, "'XML Schema Part 2: Datatypes Second Edition", World Wide Web Consortium Recommendation REC-xmlschema-2-20041028", October 2004, <<http://www.w3.org/TR/2004/REC-xmlschema-2-20041028>>.

10.2. Informative References

- [ID.[draft-ietf-regext-reseller](#)]
Zhou, L., Kong, N., Zhou, G., Lee, X., and J. Gould, "Extensible Provisioning Protocol (EPP) Reseller Mapping", Jun 2016, <<http://tools.ietf.org/html/draft-ietf-regext-reseller>>.

[Appendix A](#). Change Log

Initial -00: Individual document submitted.

-01:

- * Updated abstract and introduction.
- * Revised typos in info response.
- * Added explanations on how to process reseller extension after successful transfer operation.
- * Modified <update> explanation.
- * Deleted reseller name element in <create> and <update> commands.
- * Removed some inaccurate comments from xml schema.
- * Modified the element name of reseller id and reseller name.

-02:

- * Changed author information.
- * Updated xml typos <reseller:infData> to <resellerext:infData> in <info> response.

-03:

- * Changed author information.
- * Updated [section 3.1](#).
- * Removed reseller name element in <info> response.
- * Added acknowledgement.
- * Revised the typo "resellerr" to "resellerext".

WG document-00: WG document submitted

WG document-01: Keep document alive for further discussion. The requirement of reseller information is clear for both registrar and registry. What we should reach a consensus is whether the extension should support only a name or ID and name.

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Reseller Extension for the EPP

December 2016

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