



Name Ratings

Charge Extension Guide

Table of Contents

1. Overview	3
1.1 Name Ratings	3
2. EPP Transaction Reference	3
2.1 Check Name Ratings	4
2.1.1 Check Name Ratings Examples	5
2.2 Create Name Ratings	8
2.2.1 Create Name Ratings Examples	9
2.3 Info Name Ratings	11
2.3.1 Info Name Ratings Examples	11
2.4 Renew Name Ratings	13
2.4.1 Renew Name Ratings Examples	14
2.5 Transfer Name Ratings	16
2.5.1 Transfer Name Ratings Examples	17
2.6 Update Name Ratings	19
2.6.1 Update Name Ratings Examples	20
3. Name Ratings Schema	22

1. Overview

This document describes the Name Ratings feature and the applicable domain pricing “charge extension” for version 1.0 of the Extensible Provisioning Protocol (EPP). This mapping, an extension of the domain name mapping, is specified using XML and XML schema notation.

EPP documentation provides a complete description of EPP command and response structures. A thorough understanding of the base protocol specification is necessary to understand the mapping described in this document.

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.

The Name Ratings charge extension adds additional elements to the domain name mapping described in EPP (RFC 5731). Only new element descriptions are described here.

1.1 Name Ratings

All available Donuts domains are offered on a first-come, first served, buy now basis, in real time through the SRS. Each domain is assigned a quality rating called a Name Rating. Each Name Rating has an associated wholesale price. A full list of Name Ratings is provided along with the RRA.

Most Donuts TLDs have between four to six Name Ratings. The lowest Name Rating in any given TLD is called the ‘Standard’ rating for that TLD. For example, in a .TLD, Standard names might have a Name Rating of ‘B’, which is currently priced at \$7 per year. Most domains in .TLD will be rated ‘B’. No charge extension is necessary to register Standard names. A small percentage of domains in .TLD will be rated higher than Standard. These are called Premium names. Any domain that is not a Premium name is a Standard name. In order to register a Premium name using the Donuts SRS, registrars will need to use the Name Ratings charge extension.

2. EPP Transaction Reference

The Name Ratings feature extends the operation of several EPP commands. This section describes the syntax and usage of the charge extension.

In this section:

2.1	Check Name Ratings.....	Error! Bookmark not defined.
2.2	Create Name Ratings.....	Error! Bookmark not defined.
2.3	Info Name Ratings.....	Error! Bookmark not defined.
2.4	Renew Name Ratings.....	Error! Bookmark not defined.
2.5	Transfer Name Ratings.....	Error! Bookmark not defined.
2.6	Update Name Ratings.....	Error! Bookmark not defined.

2.1 Check Name Ratings

The Donuts SRS extension for Name Ratings facilitates the registration of highly desirable domain names sold at prices other than Standard domain registration prices. The charge extension affects the server response of the EPP <check> command.

XML Tags	Occurrence	Size - Notes
<charge:cd>	1	<charge:chkData xmlns:charge="http://www.unitedtld.com/epp/charge-1.0">
<charge:name>	1 or more	Contains the domain string being checked
<charge:set>	1 or more	Contains the child elements for a single domain string
<charge:category>	1	Contains the name of the Name Rating
<charge:type>	1	Contains the type of Name Rating, possible values are "price" "fee"
<charge:amount>	1 or more	Attribute = "command" value = "create" "renew" "transfer" "update" name="restore"

The EPP <check> command provides a query operation to determine the existence of a domain object in the Donuts SRS database. The Name Ratings charge extension affects the return data from the SRS with the inclusion of a <charge:cd> element that describes the namespace of the extension and contains the following child elements:

<charge:name>

This element has a name attribute that contains the name of the domain object being queried.

<charge:set>

This element has child elements for a single domain string.

<charge:category>

This element has a name attribute that contains the name of the Name Rating.

<charge:type>

This element contains the type of the name rating information to return.

<charge:amount>

One or more elements that contain an attribute "command" that indicates an operation type and the price value for that operation. Possible values are create, renew, transfer, and update name restore.

The Name Ratings charge extension will only be returned for available Premium domains. If a Premium domain is not available, the pricing information will not be returned. *Name Ratings data will only be returned to registrars that have subscribed to the Name Ratings feature. For unsubscribed registrars, no pricing information will be returned and the <check> response will return the domain as unavailable.* An EPP error response MUST be returned if a <check> command cannot be processed for any reason.

2.1.1 Check Name Ratings Examples

Example <check> response with domain pricing extension:

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<epp xmlns:xsi="http://www.w3.org/2001/
XMLSchema-instance" xsi:schemaLocation="urn:
ietf:params:xml:ns:epp-1.0 epp-1.0.xsd" xmlns="
urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000">
      <msg>Command completed successfully</msg>
    </result>
    <resData>
      <domain:chkData
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:
schemaLocation="urn:ietf:params:xml:ns:domain-1.0
domain-1.0.xsd" xmlns:domain="urn:ietf:params:
xml:ns:domain-1.0">
        <domain:cd>
          <domain:name avail="1">greatname.TLD
</domain:name>
        </domain:cd>
      </domain:chkData>
    </resData>
    <extension>
      <charge:chkData xmlns:charge="http://
www.unitedtld.com/epp/charge-1.0">
        <charge:cd>
          <charge:name>greatname.TLD</charge:name>
          <charge:set>
            <charge:category name="AAAA">premium
</charge:category>
            <charge:type>price</charge:type>
            <charge:amount command="create">20.0000
</charge:amount>
            <charge:amount command="renew">20.0000
</charge:amount>
            <charge:amount command="transfer">20.0000
</charge:amount>
            <charge:amount command="update" name="restore">
20.0000</charge:amount>
          </charge:set>
        </charge:cd>
      </charge:chkData>
    </extension>
    <trID>
      <clTRID>ABC-12345</clTRID>
      <svTRID>141b4546-daae-4ee6-a97c-4c41fd43d428:2
</svTRID>
    </trID>
  </response>
```

```
</epp>
```

Example <check> response with domain pricing extension for multiple domains:

```
<epp xmlns:xsi="http://www.w3.org/2001/
XMLSchema-instance" xsi:schemaLocation=
"urn:ietf:params:xml:ns:epp-1.0 epp-1.0.xsd"
xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000">
      <msg>Command completed successfully</msg>
    </result>
    <resData>
      <domain:chkData xmlns:xsi="http://
www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:ietf:params:xml:ns:domain-1.0
domain-1.0.xsd" xmlns:domain="
urn:ietf:params:xml:ns:domain-1.0">
        <domain:cd>
          <domain:name avail="1">greatname.TLD</domain:name>
        </domain:cd>
        <domain:cd>
          <domain:name avail="1">supername.TLD</domain:name>
        </domain:cd>
        <domain:cd>
          <domain:name avail="1">funname.TLD</domain:name>
        </domain:cd>
      </domain:chkData>
    </resData>
    <extension>
      <charge:chkData xmlns:charge="http://
www.unitedtld.com/epp/charge-1.0">
        <charge:cd>
          <charge:name>greatname.TLD</charge:name>
          <charge:set>
            <charge:category name="AAAA">premium
          </charge:category>
          <charge:type>price</charge:type>
          <charge:amount command="create">20.0000
        </charge:amount>
          <charge:amount command="renew">20.0000
        </charge:amount>
          <charge:amount command="transfer">20.0000
        </charge:amount>
          <charge:amount command="update" name="restore">
20.0000</charge:amount>
        </charge:set>
      </charge:cd>
      <charge:cd>
        <charge:name>supername.TLD</charge:name>
        <charge:set>
```

```
<charge:category name="AAAA">premium
</charge:category>
<charge:type>price</charge:type>
<charge:amount command="create">20.0000
</charge:amount>
<charge:amount command="renew">20.0000
</charge:amount>
<charge:amount command="transfer">20.0000
</charge:amount>
<charge:amount command="update" name="restore">
20.0000</charge:amount>
</charge:set>
</charge:cd>
<charge:cd>
<charge:name>funname.TLD</charge:name>
<charge:set>
<charge:category name="AAAA">premium
</charge:category>
<charge:type>price</charge:type>
<charge:amount command="create">20.0000
</charge:amount>
<charge:amount command="renew">20.0000
</charge:amount>
<charge:amount command="transfer">20.0000
</charge:amount>
<charge:amount command="update" name="restore">
20.0000</charge:amount>
</charge:set>
</charge:cd>
</charge:chkData>
</extension>
<trID>
<clTRID>ABC-12345</clTRID>
<svTRID>3a5dd9b5-1110-4998-8448-fcea70444f63:3</svTRID>
</trID>
</response>
</epp>
```

2.2 Create Name Ratings

The Donuts SRS extension for Name Ratings facilitates the registration of highly desirable domain names sold at prices other than Standard domain registration prices. The charge extension defines additional elements for the EPP **<create>** command.

XML Tag	Occurrence	Size - Notes
<code><charge:agreement></code>	1	<code><charge:agreement xmlns:charge="http://www.unitedtld.com/epp/charge-1.0"></code>
<code><charge:name></code>	1	Contains the domain name
<code><charge:set></code>	1	Contains the child elements for a single domain string
<code><charge:category></code>	1	Contains the Name Rating name
<code><charge:type></code>	1	Contains the type of name rating, values include "price" "fee"
<code><charge:amount></code>	1 or more	Attribute = "command" value = "create" "renew" "transfer" "update" name="restore"

The EPP **<create>** command provides a transform operation that provisions a domain object in the Donuts SRS database. In addition to the EPP command elements described in the EPP domain mapping, the command **MUST** contain an `<extension>` element, and that `<extension>` element **MUST** contain a child **<charge:agreement>** element that describes the extension namespace and contains the following child elements:

`<charge:name>`

This element contains the name of the domain to be created.

`<charge:set>`

This element has child elements for a single domain string.

`<charge:category>`

This element contains the name of the Name Rating.

`<charge:type>`

This element contains the type of the name rating associated with the domain.

`<charge:amount>`

One or more elements that contain an attribute "command" that indicates an operation type and the price value for that operation. Possible values are create, renew, transfer, and update name restore.

Presence of this element with matching price value would mean that the client agrees to the specified premium price of the domain name. The `<charge:agreement>` element's value indicates the domain's actual purchase price amount. This is verified against the registry's premium price, before processing the command. If it does not match, a billing failure result code 2104 is returned.

When a `<create>` command has been processed successfully, the EPP `<resData>` element **MUST** contain child elements as described in the EPP domain mapping. In addition, the EPP `<extension>` element **SHOULD** contain a child `<charge:creData>` element that identifies the extension namespace if the domain object is premium. `<charge: creData>` element contains the following child elements:

<charge:set>

This element has child elements for a single domain string.

<charge:category>

This element has a name attribute contains the name of the domain object being queried.

<charge:type>

This element contains the name of the name rating associated with the domain.

<charge:amount>

One or more elements that contain an attribute "command" that indicates an operation type and the price value for that operation. Possible values are create, renew, transfer, and update name restore.

2.2.1 Create Name Ratings Examples

Example <create> command with Name Ratings charge extension:

```
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <command>
    <create>
      <domain:create
xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
        <domain:name>greatname.TLD</domain:name>
        <domain:period unit="y">1</domain:period>
        <domain:registrant>sh1890</domain:registrant>
        <domain:contact type="admin">sh1890</domain:contact>
        <domain:contact type="tech">sh1890</domain:contact>
        <domain:authInfo>
        <domain:pw>2foo%BAR</domain:pw>
        </domain:authInfo>
      </domain:create>
    </create>
    <extension>
      <charge:agreement xmlns:charge="
http://www.unitedtld.com/epp/charge-1.0">
        <charge:set>
          <charge:category name="AAAA">premium
</charge:category>
          <charge:type>price</charge:type>
          <charge:amount command="create">20.0000
</charge:amount>
        </charge:set>
      </charge:agreement>
    </extension>
    <c1TRID>ABC-12345</c1TRID>
  </command>
</epp>
```

Example <create> response with domain pricing charge extension:

```
<epp xmlns:xsi="http://www.w3.org/2001/
XMLSchema-instance" xsi:schemaLocation="
```

```
urn:ietf:params:xml:ns:epp-1.0 epp-1.0.xsd"
xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000">
      <msg>Command completed successfully</msg>
    </result>
    <resData>
      <domain:creData xmlns:xsi="http://
www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:ietf:params:xml:ns:domain-1.0 domain-1.0.xsd"
xmlns:domain="
urn:ietf:params:xml:ns:domain-1.0">
        <domain:name>greatname.TLD</domain:name>
        <domain:crDate>2013-10-11T20:26:55.893Z
</domain:crDate>
        <domain:exDate>2014-10-11T20:26:55.893Z
</domain:exDate>
        </domain:creData>
      </resData>
      <extension>
        <charge:creData xmlns:charge="http://
www.unitedtld.com/epp/charge-1.0">
          <charge:set>
            <charge:category name="AAAA">premium
</charge:category>
            <charge:type>price</charge:type>
            <charge:amount command="create">20.0000
</charge:amount>
            <charge:amount command="renew">20.0000
</charge:amount>
            <charge:amount command="transfer">
20.0000</charge:amount>
            <charge:amount command="update" name="restore">
20.0000</charge:amount>
          </charge:set>
        </charge:creData>
      </extension>
      <trID>
        <clTRID>ABC-12345</clTRID>
        <svTRID>c71106b6-3d2e-4272-8416-2579ccdf531a:8
</svTRID>
      </trID>
    </response>
  </epp>
```

2.3 Info Name Ratings

The Donuts SRS extension for Name Ratings facilitates the registration of highly desirable domain names sold at prices other than Standard domain registration prices. The charge extension affects the server response to the EPP <info> command.

XML Tag	Occurrence	Size - Notes
<charge:infData>	1	<charge:infData xmlns:charge="http://www.unitedtld.com/epp/charge-1.0">
<charge:set>	1 or more	Contains the child elements for a single domain string
<charge:category>	1	Contains the name of the name rating
<charge:type>	1	Contains the type of name rating for the domain object, values include "price" "fee"
<charge:amount>	1 or more	Attribute = "command" value = "create" "renew" "transfer" update name="restore"

The EPP <info> command provides a query operation to return information about a domain object in the Donuts SRS database. The Name Ratings extension affects the return data from the SRS with the inclusion of a <priceCategories:infData> element that describes the namespace of the extension and contains the following child elements:

<charge:set>

This element has child elements for a single domain string.

<charge:category>

This element contains the name of the name rating.

<charge:type>

This element contains the type of the name rating associated with the domain.

<charge:amount>

One or more elements that contain an attribute "command" that indicates an operation type and the price value for that operation. Possible values are create, renew, transfer, and update name restore.

The Name Ratings extension will be returned for a premium domain only to the sponsoring registrar and to non-sponsoring registrars, who have submitted a valid <authInfo> element for the domain, and have subscribed to the Name Ratings feature.

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

2.3.1 Info Name Ratings Examples

Example <info> response with domain pricing extension:

```
<epp xmlns:xsi="http://www.w3.org/2001/
XMLSchema-instance" xsi:schemaLocation="
urn:ietf:params:xml:ns:epp-1.0 epp-1.0.xsd"
xmlns="urn:ietf:params:xml:ns:epp-1.0">
```

```
<response>
<result code="1000">
<msg>Command completed successfully</msg>
</result>
<resData>
<domain:infData xmlns:xsi="http://
www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:ietf:params:xml:ns:
domain-1.0 domain-1.0.xsd" xmlns:domain="
urn:ietf:params:xml:ns:domain-1.0">
<domain:name>greatname.TLD</domain:name>
<domain:roid>23e82a3f0a614691b9e53d3d0156fe05-D
</domain:roid>
<domain:status s="ok" />
<domain:registrant>sh1890</domain:registrant>
<domain:contact type="admin">sh1890</domain:contact>
<domain:contact type="tech">sh1890</domain:contact>
<domain:clID>Registrar100</domain:clID>
<domain:crID>Registrar100</domain:crID>
<domain:crDate>2013-10-11T20:26:55.893Z
</domain:crDate>
<domain:upID>Registrar100</domain:upID>
<domain:upDate>2013-10-11T20:26:56.35Z
</domain:upDate>
<domain:exDate>2014-10-11T20:26:55.893Z
</domain:exDate>
<domain:authInfo>
<domain:pw>2foo%BAR</domain:pw>
</domain:authInfo>
</domain:infData>
</resData>
<extension>
<rgp:infData xmlns:rgp="urn:ietf:params:
xml:ns:rgp-1.0">
<rgp:rgpStatus s="addPeriod" />
</rgp:infData>
<charge:infData xmlns:charge="http://
www.unitedtld.com/epp/charge-1.0">
<charge:set>
<charge:category name="AAAA">premium
</charge:category>
<charge:type>price</charge:type>
<charge:amount command="create">20.0000
</charge:amount>
<charge:amount command="renew">20.0000
</charge:amount>
<charge:amount command="transfer">20.0000
</charge:amount>
<charge:amount command="update" name="restore">
20.0000</charge:amount>
</charge:set>
</charge:infData>
```

```

</extension>
<trID>
<clTRID>ABC-12345</clTRID>
<svTRID>088f756a-3ed9-4256-b29c-fc0051722c9d:9
</svTRID>
</trID>
</response>
</epp>

```

2.4 Renew Name Ratings

The Donuts SRS extension for Name Ratings facilitates the registration of highly desirable domain names sold at prices other than Standard domain registration prices. The charge extension affects the client EPP <renew> command. No additional elements are defined for the server response.

XML Tag	Occurrence	Size - Notes
<charge:agreement>	1	<charge:agreement xmlns:charge="http://www.unitedtld.com/epp/charge-1.0">
<charge:set>	1	Contains the name of the domain
<charge:category>	1	Contains the name of the name rating
<charge:type>	1	Contains the type of name rating, values include "price" "fee"
<charge:amount>	1 or more	Attribute = "command" value = "create" "renew" "transfer" update name="restore"

The EPP <renew> command provides a transform operation to extend the registration period of a domain object in the Donuts SRS database. In addition to the standard EPP elements, the <extensions> element MUST contain a <charge:agreement> element that describes the namespace and contains the following child elements:

<charge:set>

This element has child elements for a single domain string.

<charge:category>

This element contains the name of the name rating.

<charge:type>

This element contains the type of the name rating associated with the domain.

<charge:amount>

One or more elements that contain an attribute "command" that indicates an operation type and the price value for that operation. Possible values are create, renew, transfer, and update name restore.

When a <renew> command has been processed successfully, the EPP <resData> element MUST contain child elements as described in the EPP domain mapping. In addition, the EPP <extension> element SHOULD contain a child <charge:renData> element that identifies the extension namespace if the domain object is premium. <charge:renData> element contains the following child elements:

<charge:set>

This element has child elements for a single domain string.

`<charge:category>`

This element contains the name of the name rating.

`<charge:type>`

This element contains the type of the name rating associated with the domain.

`<charge:amount>`

One or more elements that contain an attribute "command" that indicates an operation type and the price value for that operation. Possible values are create, renew, transfer, and update name restore.

2.4.1 Renew Name Ratings Examples

Example `<renew>` command with Name Ratings extension:

```
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <command>
    <renew>
      <domain:renew
xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
        <domain:name>greatname.TLD</domain:name>
        <domain:curExpDate>2014-10-11</domain:curExpDate>
        <domain:period unit="y">1</domain:period>
      </domain:renew>
    </renew>
    <extension>
      <charge:agreement xmlns:charge="
http://www.unitedtld.com/epp/charge-1.0">
        <charge:set>
          <charge:category name="AAAA">premium
</charge:category>
          <charge:type>price</charge:type>
          <charge:amount command="renew">20.0000
</charge:amount>
        </charge:set>
      </charge:agreement>
    </extension>
    <clTRID>ABC-12345</clTRID>
  </command>
</epp>
```

Example `<renew>` response with Name Ratings extension:

```
<epp xmlns:xsi="http://www.w3.org/2001/
XMLSchema-instance" xsi:schemaLocation="
urn:ietf:params:xml:ns:epp-1.0 epp-1.0.xsd"
xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000">
      <msg>Command completed successfully</msg>
    </result>
```

```
<resData>
  <domain:renData xmlns:xsi="http://
www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:ietf:params:xml:ns:domain-1.0 domain-1.0.xsd"
xmlns:domain="
urn:ietf:params:xml:ns:domain-1.0">
  <domain:name>greatname.TLD</domain:name>
  <domain:exDate>2015-10-11T20:26:55.893Z
</domain:exDate>
</domain:renData>
</resData>
<extension>
  <charge:renData xmlns:charge="http://
www.unitedtld.com/epp/charge-1.0">
  <charge:set>
  <charge:category name="AAAA">premium
</charge:category>
  <charge:type>price</charge:type>
  <charge:amount command="create">20.0000
</charge:amount>
  <charge:amount command="renew">20.0000
</charge:amount>
  <charge:amount command="transfer">20.0000
</charge:amount>
  <charge:amount command="update" name="restore">
20.0000</charge:amount>
  </charge:set>
</charge:renData>
</extension>
<trID>
<clTRID>ABC-12345</clTRID>
<svTRID>b9b69a12-6de8-43ad-8b99-f9cc8a5bca78:11
</svTRID>
</trID>
</response>
</epp>
```

2.5 Transfer Name Ratings

The Donuts SRS extension for Name Ratings facilitates the registration of highly desirable domain names sold at prices other than Standard domain registration prices The charge extension defines additional elements for the EPP <transfer> command.

XML Tag	Occurrence	Size - Notes
<charge:agreement>	1	<charge:agreement xmlns:charge="http://www.unitedtld.com/epp/charge-1.0">
<charge:set>	1	Contains the name of the domain
<charge:category>	1	Contains the name of the name rating
<charge:type>	1	Contains the type of name rating, values include "price" "fee"
<charge:amount>	1 or more	Attribute = "command" value = "create" "renew" "transfer" update name="restore"

The EPP <transfer> command provides a transform operation that allows a client to gain sponsorship of a domain object. In addition to the EPP command elements described in the EPP domain mapping, the transfer "request" command MUST contain an <extension> element, and the <extension> element MUST contain a child <charge:agreement> element that describes the namespace and contains the following child elements:

<charge:set>

This element has child elements for a single domain string.

<charge:category>

This element contains the name of the name rating.

<charge:type>

This element contains the type of the name rating associated with the domain.

<charge:amount>

One or more elements that contain an attribute "command" that indicates an operation type and the price value for that operation. Possible values are create, renew, transfer, and update name restore.

Presence of this element with matching price value would mean that the client agrees to the specified premium price for transfer of the domain name. The <charge:agreement> element's value indicates the domain's actual transfer price amount. This is verified against registry's transfer premium price, before processing the command. If it does not match a billing failure result code 2104 is returned.

When a <transfer> command has been processed successfully, the EPP <resData> element MUST contain child elements as described in the EPP domain mapping. In addition, the EPP <extension> element SHOULD contain a child <charge:trnData> that describes the namespace and contains the following child elements:

<charge:set>

This element has child elements for a single domain string.

<charge:category>

This element contains the name of the name rating.

<charge:type>

This element contains the type of the name rating associated with the domain.

<charge:amount>

One or more elements that contain an attribute "command" that indicates an operation type and the price value for that operation. Possible values are create, renew, transfer, and update name restore.

2.5.1 Transfer Name Ratings Examples

Example <transfer> command with domain pricing extension:

```
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <command>
    <transfer op="request">
      <domain:transfer
xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
        <domain:name>greatname.TLD</domain:name>
        <domain:period unit="y">1</domain:period>
        <domain:authInfo>
          <domain:pw>2foo%BAR</domain:pw>
        </domain:authInfo>
      </domain:transfer>
    </transfer>
    <extension>
      <charge:agreement xmlns:charge="http://
www.unitedtld.com/epp/charge-1.0">
        <charge:set>
          <charge:category name="AAAA">premium
</charge:category>
          <charge:type>price</charge:type>
          <charge:amount command="transfer">20.0000
</charge:amount>
        </charge:set>
      </charge:agreement>
    </extension>
    <clTRID>ABC-12345</clTRID>
  </command>
</epp>
```

Example <transfer> response with domain pricing extension:

```
<epp xmlns:xsi="http://www.w3.org/2001/
XMLSchema-instance" xsi:schemaLocation="
urn:ietf:params:xml:ns:epp-1.0 epp-1.0.xsd"
xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1001">
      <msg>Command completed successfully; action pending</msg>
    </result>
  <resData>
```

```
<domain:trnData xmlns:xsi="http://www.w3.org/2001/
XMLSchema-instance" xsi:schemaLocation="urn:ietf:params:
xml:ns:domain-1.0 domain-1.0.xsd" xmlns:domain="
urn:ietf:params:xml:ns:domain-1.0">
  <domain:name>greatname.TLD</domain:name>
  <domain:trStatus>pending</domain:trStatus>
  <domain:reID>Registrar200</domain:reID>
  <domain:reDate>2013-10-11T21:01:20.377Z
</domain:reDate>
  <domain:acID>Registrar100</domain:acID>
  <domain:acDate>2013-10-16T21:01:20.377Z
</domain:acDate>
  <domain:exDate>2016-10-06T20:26:55.893Z
</domain:exDate>
</domain:trnData>
</resData>
<extension>
  <charge:trnData xmlns:charge="http://
www.unitedtld.com/epp/charge-1.0">
    <charge:set>
      <charge:category name="AAAA">premium
</charge:category>
      <charge:type>price</charge:type>
      <charge:amount command="create">20.0000
</charge:amount>
      <charge:amount command="renew">20.0000
</charge:amount>
      <charge:amount command="transfer">20.0000
</charge:amount>
      <charge:amount command="update" name="restore">
20.0000</charge:amount>
    </charge:set>
  </charge:trnData>
</extension>
  <trID>
  <clTRID>ABC-12345</clTRID>
  <svTRID>7c77c2a0-5bef-480d-b114-48210a58ec10:8
</svTRID>
  </trID>
</response>
</epp>
```

2.6 Update Name Ratings

The Donuts SRS extension for Name Ratings facilitates the registration of highly desirable domain names sold at prices other than Standard domain registration prices. The charge extension defines additional elements for the EPP <update> command. No additional elements are defined for the server response.

XML Tag	Occurrence	Size - Notes
<charge:agreement>	1	<charge:agreement xmlns:charge="http://www.unitedtld.com/epp/charge-1.0">
<charge:set>	1	Contains the name of the domain
<charge:category>	1	Contains the name of the name rating
<charge:type>	1	Contains the type of name rating, values include "price" "fee"
<charge:amount>	1 or more	Attribute = "command" value = "create" "renew" "transfer" "update name="restore"

The EPP <update> command with RGP extension enables a client to restore a domain from Redemption Grace Period state. If such a domain is specified as premium domain in the registry, the premium domain pricing extension can affect the price of restore and hence the processing. In addition to the EPP command elements described in the EPP domain mapping, the update command MUST contain an <extension> element. Since RGP extension is involved, it is assumed that related child elements are already present in <extension> element. Further, the <extension> element MUST contain a child <charge:agreement> element that describes the extension namespace and contains the following child elements:

<charge:set>

This element has child elements for a single domain string.

<charge:category>

This element contains the name of the name rating.

<charge:type>

This element contains the type of the name rating associated with the domain.

<charge:amount>

One or more elements that contain an attribute "command" that indicates an operation type and the price value for that operation. Possible values are create, renew, transfer, and update name restore.

Presence of this element with matching price value would mean that the client agrees to the specified premium price for restoring the domain name. The <charge:agreement> element's value indicates the domain's actual restore price amount. This is verified against registry's transfer premium price, before processing the command. If it does not match a billing failure result code 2104 is returned.

The Name Ratings extension pricing agreement MUST be supplied for an RGP restore request. Furthermore, the registrar must be subscribed to the premium priced domains feature. If the registrar is not subscribed, an authorization error result code 2201 is returned.

When an <update> command has been processed successfully, the EPP <resData> element MUST contain child elements as described in the EPP domain mapping. In addition, the EPP <extension> element SHOULD contain a child <charge:upData> element that identifies the extension namespace if the domain object is categorized as premium. The <charge:upData> element contains the following child elements:

<charge:set>

This element has child elements for a single domain string.

<charge:category>

This element contains the name of the name rating.

<charge:type>

This element contains the type of the name rating associated with the domain.

<charge:amount>

One or more elements that contain an attribute "command" that indicates an operation type and the price value for that operation. Possible values are create, renew, transfer, and update name restore.

2.6.1 Update Name Ratings Examples

Example <update> command to restore a domain with domain pricing extension:

```
<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>
    <update>
      <domain:update
xmlns:domain="urn:ietf:params:xml:ns:domain-1.0"
xsi:schemaLocation="urn:ietf:params:xml:ns:domain-1.0
domain-1.0.xsd">
        <domain:name>greatname.TLD</domain:name>
        <domain:chg/>
      </domain:update>
    </update>
    <extension>
      <rgp:update xmlns:rgp="urn:ietf:params:xml:ns:rgp-1.0"
xsi:schemaLocation="urn:ietf:params:xml:ns:rgp-1.0
rgp-1.0.xsd">
        <rgp:restore op="request"/>
      </rgp:update>
      <charge:agreement xmlns:charge="http://
www.unitedtld.com/epp/charge-1.0">
        <charge:set>
          <charge:category name="AAAA">premium
        </charge:category>
        <charge:type>price</charge:type>
        <charge:amount command="update" name="restore">
20.0000</charge:amount>
        </charge:set>
      </charge:agreement>
    </extension>
  </command>
</epp>
```

```
</charge:agreement>
</extension>
<clTRID>ABC-12345</clTRID>
</command>
</epp>
```

Example <update> response with domain pricing extension:

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<epp xmlns:xsi="http://www.w3.org/2001/
XMLSchema-instance" xsi:schemaLocation="
urn:ietf:params:xml:ns:epp-1.0 epp-1.0.xsd"
xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000">
      <msg>Command completed successfully</msg>
    </result>
    <extension>
      <rgp:upData xmlns:rgp="urn:ietf:params:xml:ns:
rgp-1.0">
        <rgp:rgpStatus s="pendingRestore" />
      </rgp:upData>
      <charge:upData xmlns:charge="http://
www.unitedtld.com/epp/charge-1.0">
        <charge:set>
          <charge:category name="AAAA">premium
</charge:category>
          <charge:type>price</charge:type>
          <charge:amount command="create">20.0000
</charge:amount>
          <charge:amount command="renew">20.0000
</charge:amount>
          <charge:amount command="transfer">20.0000
</charge:amount>
          <charge:amount command="update" name="restore">
20.0000</charge:amount>
        </charge:set>
      </charge:upData>
    </extension>
    <trID>
      <clTRID>ABC-12345</clTRID>
      <svTRID>a7ac0831-d779-4569-9329-aae9960f2cf1:11
</svTRID>
    </trID>
  </response>
</epp>
```

3. Name Ratings Schema

```
<?xml version="1.0" encoding="utf-8"?>
<schema targetNamespace="http://www.unitedtld.com/epp/charge-1.0"
xmlns:charge="http://www.unitedtld.com/epp/charge-1.0"
xmlns="http://www.w3.org/2001/XMLSchema"
xmlns:eppcom="urn:ietf:params:xml:ns:eppcom-1.0"
elementFormDefault="qualified">
<!-- Import common element types. -->
<import namespace="urn:ietf:params:xml:ns:eppcom-1.0" schemaLocation="eppcom-1.0.xsd" />
<annotation>
<documentation>
Extensible Provisioning Protocol v1.0 domain name extension schema for
domains part of a charge set.
</documentation>
</annotation>
<!-- Child elements found in EPP commands. -->
<element name="agreement" type="charge:setListType"/>
<!-- Child response elements. -->
<element name="chkData" type="charge:chkRespType"/>
<element name="infData" type="charge:setListType"/>
<element name="creData" type="charge:setListType"/>
<element name="trnData" type="charge:setListType"/>
<element name="renData" type="charge:setListType"/>
<element name="upData" type="charge:setListType"/>

<!-- Charge set type values: price or fee -->
<simpleType name="setTypeValue">
<restriction base="token">
<enumeration value="fee"/>
<enumeration value="price"/>
<enumeration value="custom"/>
</restriction>
</simpleType>

<!-- Charge set type: name attribute to be used for custom values -->
<complexType name="setAttrType">
<simpleContent>
<extension base="charge:setTypeValue">
<attribute name="name" type="token" use="optional"/>
</extension>
</simpleContent>
</complexType>

<!-- EPP command types -->
<simpleType name="commandTypeValue">
<restriction base="token">
<enumeration value="check"/>
<enumeration value="create"/>
<enumeration value="delete"/>
</restriction>
</simpleType>
```

```

<enumeration value="info"/>
<enumeration value="renew"/>
<enumeration value="transfer"/>
<enumeration value="update"/>
<enumeration value="custom"/>
</restriction>
</simpleType>

<!-- Command type amount is charged for -->
<complexType name="amountType">
  <simpleContent>
    <extension base="decimal">
      <attribute name="command" type="charge:commandTypeValue" use="required"/>
      <attribute name="name" type="token" use="optional" />
    </extension>
  </simpleContent>
</complexType>

<!-- Category of charge - defines what the charge is for - name attribute can be used for pricing
levels -->
<complexType name="categoryType">
  <simpleContent>
    <extension base="token">
      <attribute name="name" type="token" use="optional" />
    </extension>
  </simpleContent>
</complexType>

<!-- Charge set definition -->
<complexType name="setType">
  <sequence>
    <element name="category" type="charge:categoryType"/>
    <element name="type" type="charge:setAttrType"/>
    <element name="amount" type="charge:amountType" maxOccurs="unbounded"/>
  </sequence>
</complexType>

<!-- Command types -->
<complexType name="setListType">
  <sequence>
    <element name="set" type="charge:setType" maxOccurs="unbounded"/>
  </sequence>
</complexType>

<!-- <check> response elements. -->
<complexType name="checkType">
  <sequence>
    <element name="name" type="eppcom:labelType"></element>
    <element name="set" type="charge:setType" maxOccurs="unbounded"/>
  </sequence>

```

```
</complexType>  
  
<complexType name="chkRespType">  
  <sequence>  
    <element name="cd" type="charge:checkType" maxOccurs="unbounded"/>  
  </sequence>  
</complexType>  
</schema>
```