

Domain Charge Extension for the Extensible Provisioning Protocol (EPP)

Abstract

This document describes an Extensible Provisioning Protocol (EPP) extension mapping for domain name pricing.

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1. Introduction

This document describes an extension mapping of the Extensible Provisioning Protocol (EPP) [[STD69](#)]. This EPP extension returns pricing information for domain names as an extension of the EPP domain name mapping [[RFC5731](#)].

1.1. 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 RFC 2119 [[RFC2119](#)].

XML is case sensitive. Unless stated otherwise, XML specifications and examples provided in this document MUST be interpreted in the character case presented in order to develop a conforming implementation. Indentation and white space in examples are provided only to illustrate element relationships and are not a REQUIRED feature of this protocol.

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 protocol.

"charge-1.0" is used as an abbreviation for "http://www.unitedld.com/epp/charge-1.0". The XML namespace prefix "charge" is used, but implementations MUST NOT depend on it and instead employ a proper namespace-aware XML parser and serializer to interpret and output the XML documents.

2. Object Attributes

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

3. EPP Command Mapping

A detailed description of the EPP syntax and semantics can be found in the EPP core protocol specification [\[RFC5730\]](#) and the EPP domain name mapping [\[RFC5731\]](#).

3.1. EPP Query Commands

EPP provides three commands to retrieve domain object information: <check> to determine if a domain object is known to the server, <info> to retrieve detailed information associated with a domain object, and <transfer> to retrieve domain-object transfer status information [\[RFC5731\]](#).

3.1.1. EPP <check> Command

This extension does not add any elements to the EPP <check> command described in the EPP domain mapping [\[RFC5731\]](#). However, additional elements are defined for the <check> response.

The domain charge extension affects the server response to the EPP <check> command with the inclusion of a <charge:chkData> element that describes the extension namespace and contains one or more of the following child element:

- <charge:cd> This element, which is returned for each <domain:name> in the check request that is subject to specific charges, contains two child elements: <charge:name> and <charge:set>.
 - <charge:name> This element indicates the name of the domain object being queried.
 - <charge:set> This element, which is returned for each charge category that applies to the domain name, describes charge information associated with each operation and contains the following child elements:
 - <charge:category> This element contains an OPTIONAL attribute “name” and describes the charge category associated with the domain.
 - <charge:type> This element contains an OPTIONAL attribute “name” and indicates the charge type associated with the domain. Possible values for the element are those supported by the schema under “setTypeValue”.
 - <charge:amount> This element contains a REQUIRED attribute “command” and an OPTIONAL attribute “name” and describes the operation type and the charge value associated with the domain. Possible values for the attribute “command” are those supported by the schema under “commandTypeValue”.

Example <check> response with the domain charge extension:

```
S: <?xml version="1.0" encoding="utf-8"?>
S: <epp xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
S:     xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0 epp-1.0.xsd"
S:     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:xsi="http://www.w3.org/2001/XMLSchema-instance"
S:         xsi:schemaLocation="urn:ietf:params:xml:ns:domain-1.0
S:           domain-1.0.xsd"
S:         xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
S:         <domain:cd>
S:           <domain:name avail="0">premiumexample.info</domain:name>
S:           <domain:reason>Domain exists</domain:reason>
S:         </domain:cd>
S:         <domain:cd>
S:           <domain:name avail="1">premiumdomain.social</domain:name>
```

```
S:      </domain:cd>
S:      </domain:chkData>
S:      </resData>
S:      <extension>
S:      <charge:chkData
S:      xmlns:charge="http://www.unitedtld.com/epp/charge-1.0">
S:      <charge:cd>
S:      <charge:name>premiumexample.info</charge:name>
S:      <charge:set>
S:      <charge:category name="Price Category C">premium
S:      </charge:category>
S:      <charge:type>price</charge:type>
S:      <charge:amount command="create">999.99</charge:amount>
S:      <charge:amount command="renew">552.55</charge:amount>
S:      <charge:amount command="transfer">2793.68</charge:amount>
S:      <charge:amount command="update" name="restore">1911.95
S:      </charge:amount>
S:      </charge:set>
S:      </charge:cd>
S:      <charge:cd>
S:      <charge:name>premiumdomain.social</charge:name>
S:      <charge:set>
S:      <charge:category name="Price Category B">premium
S:      </charge:category>
S:      <charge:type>price</charge:type>
S:      <charge:amount command="create">19.99</charge:amount>
S:      <charge:amount command="renew">19.99</charge:amount>
S:      <charge:amount command="transfer">50.00</charge:amount>
S:      <charge:amount command="update" name="restore">149.99
S:      </charge:amount>
S:      </charge:set>
S:      </charge:cd>
S:      </charge:chkData>
S:      </extension>
S:      <trID>
S:      <clTRID>Epp.12345</clTRID>
S:      <svTRID>dc96006beef04d97ab6022dddbbfefbc</svTRID>
S:      </trID>
S:      </response>
S: </epp>
```

3.1.2. EPP <info> Command

This extension does not add any elements to the EPP <info> command described in the EPP domain mapping [RFC5731]. However, additional elements are defined for the <info> response.

The domain charge extension affects the server response to the EPP <info> command with the inclusion of a <charge:infData> element that describes the extension namespace and contains one or more of the following child element:

- <charge:set> This element, which is returned for each charge category that applies to the domain name, describes charge information associated with each operation and contains the following child elements:
 - <charge:category> This element contains an OPTIONAL attribute “name” and describes the charge category associated with the domain.
 - <charge:type> This element contains an OPTIONAL attribute “name” and indicates the charge type associated with the domain. Possible values for the element are those supported by the schema under “setTypeValue”.
 - <charge:amount> This element contains a REQUIRED attribute “command” and an OPTIONAL attribute “name” and describes the operation type and the charge value associated with the domain. Possible values for the attribute “command” are those supported by the schema under “commandTypeValue”.

Example <info> response with the domain charge extension:

```
S: <?xml version="1.0" encoding="utf-8"?>
S: <epp xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
S:     xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0 epp-1.0.xsd"
S:     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:infData
S:         xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
S:         xsi:schemaLocation="urn:ietf:params:xml:ns:domain-1.0
S:           domain-1.0.xsd"
S:         xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
S:         <domain:name>premiumexample.info</domain:name>
S:         <domain:roid>907d83797bd04f0a8e44f53dec452466-DONUTS</domain:roid>
S:         <domain:status s="inactive"/>
S:         <domain:status s="clientHold"/>
S:         <domain:clID>Registrar5000</domain:clID>
S:         <domain:crDate>2025-01-27T12:14:08.791Z</domain:crDate>
S:         <domain:upDate>2025-01-27T23:37:18.545Z</domain:upDate>
S:         <domain:exDate>2027-01-27T12:14:08.791Z</domain:exDate>
```

```
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:      <charge:infData
S:      xmlns:charge="http://www.unitedtld.com/epp/charge-1.0">
S:      <charge:set>
S:      <charge:category name="Price Category C">premium
S:      </charge:category>
S:      <charge:type>price</charge:type>
S:      <charge:amount command="create">999.99</charge:amount>
S:      <charge:amount command="renew">552.55</charge:amount>
S:      <charge:amount command="transfer">2793.68</charge:amount>
S:      <charge:amount command="update" name="restore">1911.95
S:      </charge:amount>
S:      </charge:set>
S:      </charge:infData>
S:      </extension>
S:      <trID>
S:      <clTRID>Epp.12345</clTRID>
S:      <svTRID>d4633e7136004500b125903b6c0a54e0</svTRID>
S:      </trID>
S:      </response>
S: </epp>
```

3.1.3. EPP <transfer> Command

This extension does not add any elements to the EPP <transfer> query command or response described in the EPP domain name mapping [[RFC5731](#)]. It does not support returning domain pricing information for the <transfer> query.

3.2. 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 [[RFC5731](#)].

3.2.1. EPP <create> Command

The domain charge extension defines additional elements for the EPP <create> command. In addition to the EPP command elements described in the EPP domain name mapping [\[RFC5731\]](#), the command MAY contain an <extension> element, and that <extension> element MUST contain a child <charge:agreement> element that describes the extension namespace and contains one or more of the following child element:

- <charge:set> This element, which is returned for each charge category that applies to the domain name, describes charge information associated with each operation and contains the following child elements:
 - <charge:category> This element contains an OPTIONAL attribute “name” and describes the charge category associated with the domain.
 - <charge:type> This element contains an OPTIONAL attribute “name” and indicates the charge type associated with the domain. Possible values for the element are those supported by the schema under “setTypeValue”.
 - <charge:amount> This element contains a REQUIRED attribute “command” and an OPTIONAL attribute “name” and describes the operation type and the charge value associated with the domain. Possible values for the attribute “command” are those supported by the schema under “commandTypeValue”. Within the context of the EPP <create> command, the attribute “command” value MUST equal “create”.

The presence of the <charge:agreement> element with a matching charge amount indicates that the client agrees to the specified charge(s) for the creation of the domain name. The <charge:agreement> element’s value indicates the charge amount(s) that will be applied for the domain’s creation. This is verified against the registry, before processing the command. If it does not match, then an error MUST be returned to the client.

When a <create> command has been processed successfully, in addition to the EPP response elements described in the EPP domain name mapping [\[RFC5731\]](#), the response MAY contain an <extension> element, and that <extension> element MUST contain a child <charge:creData> element that describes the extension namespace and contains one or more of the following child element:

- <charge:set> This element, which is returned for each charge category that applies to the domain name, describes charge information associated with each operation and contains the following child elements:
 - <charge:category> This element contains an OPTIONAL attribute “name” and describes the charge category associated with the domain.
 - <charge:type> This element contains an OPTIONAL attribute “name” and indicates the charge type associated with the domain. Possible values for the element are those supported by the schema under “setTypeValue”.
 - <charge:amount> This element contains a REQUIRED attribute “command” and an OPTIONAL attribute “name” and describes the operation type and the charge

value associated with the domain. Possible values for the attribute "command" are those supported by the schema under "commandTypeValue".

Example <create> command with the domain charge extension:

```
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 xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
C:         <domain:name>premiueap.info</domain:name>
C:         <domain:period unit="y">1</domain:period>
C:         <domain:registrant>sh1890</domain:registrant>
C:         <domain:contact type="admin">sh1890</domain:contact>
C:         <domain:contact type="tech">sh1890</domain:contact>
C:         <domain:authInfo>
C:           <domain:pw>password-990</domain:pw>
C:         </domain:authInfo>
C:       </domain:create>
C:     </create>
C:   <extension>
C:     <charge:agreement
C:       xmlns:charge="http://www.unitedtld.com/epp/charge-1.0"
C:       xmlns:eppcom="urn:ietf:params:xml:ns:eppcom-1.0"
C:       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
C:       xsi:schemaLocation="http://www.unitedtld.com/epp/charge-1.0
C:         charge-1.0.xsd">
C:       <charge:set>
C:         <charge:category name="Price Category B">premium
C:       </charge:category>
C:       <charge:type>price</charge:type>
C:       <charge:amount command="create">19.99</charge:amount>
C:     </charge:set>
C:     <charge:set>
C:       <charge:category>earlyAccess</charge:category>
C:       <charge:type>fee</charge:type>
C:       <charge:amount command="create">1060.00</charge:amount>
C:     </charge:set>
C:   </charge:agreement>
C: </extension>
C:   <c1TRID>Epp.12345</c1TRID>
C: </command>
C: </epp>
```

Example <create> response with the domain charge extension:

```
S:<?xml version="1.0" encoding="utf-8"?>
S:<epp xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
S:   xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0 epp-1.0.xsd"
S:   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 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
S:       xsi:schemaLocation="urn:ietf:params:xml:ns:domain-1.0
S:         domain-1.0.xsd"
S:       xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
S:       <domain:name>premiueap.info</domain:name>
S:       <domain:crDate>2025-01-28T06:31:35.539Z</domain:crDate>
S:       <domain:exDate>2026-01-28T06:31:35.539Z</domain:exDate>
S:     </domain:creData>
S:   </resData>
S:   <extension>
S:     <charge:creData
S:       xmlns:charge="http://www.unitedtld.com/epp/charge-1.0">
S:       <charge:set>
S:         <charge:category name="Price Category B">premium
S:         </charge:category>
S:         <charge:type>price</charge:type>
S:         <charge:amount command="create">19.99</charge:amount>
S:         <charge:amount command="renew">19.99</charge:amount>
S:         <charge:amount command="transfer">50.00</charge:amount>
S:         <charge:amount command="update" name="restore">149.99
S:         </charge:amount>
S:       </charge:set>
S:       <charge:set>
S:         <charge:category>earlyAccess</charge:category>
S:         <charge:type>fee</charge:type>
S:         <charge:amount command="create">1060.00</charge:amount>
S:       </charge:set>
S:     </charge:creData>
S:   </extension>
S:   <trID>
S:     <clTRID>Epp.12345</clTRID>
```

```
S:      <svTRID>0b85b07f2c844cabbda8239c422da1a1</svTRID>
S:      </trID>
S:      </response>
S:</epp>
```

3.2.2. EPP <delete> Command

This extension does not add any elements to the EPP <delete> command or response described in the EPP domain name mapping [[RFC5731](#)].

3.2.3. EPP <renew> Command

The domain charge extension defines additional elements for the EPP <renew> command. In addition to the EPP command elements described in the EPP domain mapping [[RFC5731](#)], the command MAY contain an <extension> element, and the <extension> element MUST contain a child <charge:agreement> element that describes the extension namespace and contains one or more of the following child element:

- <charge:set> This element, which is returned for each charge category that applies to the domain name, describes charge information associated with each operation and contains the following child elements:
 - <charge:category> This element contains an OPTIONAL attribute “name” and describes the charge category associated with the domain.
 - <charge:type> This element contains an OPTIONAL attribute “name” and indicates the charge type associated with the domain. Possible values for the element are those supported by the schema under “setTypeValue”.
 - <charge:amount> This element contains a REQUIRED attribute “command” and an OPTIONAL attribute “name” and describes the operation type and the charge value associated with the domain. Possible values for the attribute “command” are those supported by the schema under “commandTypeValue”. Within the context of the EPP <renew> command, the attribute “command” value MUST equal “renew”.

The presence of the <charge:agreement> element with a matching charge amount indicates that the client agrees to the specified charge(s) for the renewal of the domain name. The <charge:agreement> element's value indicates the charge amount(s) that will be applied for the domain's renewal. This is verified against the registry, before processing the command. If it does not match, then an error MUST be returned to the client.

When a <renew> command has been processed successfully, in addition to the EPP response elements described in the EPP domain name mapping [[RFC5731](#)], the response MAY contain an <extension> element, and that <extension> element MUST contain a child <charge:renData>

element that describes the extension namespace and contains one or more of the following child element:

- `<charge:set>` This element, which is returned for each charge category that applies to the domain name, describes charge information associated with each operation and contains the following child elements:
 - `<charge:category>` This element contains an OPTIONAL attribute “name” and describes the charge category associated with the domain.
 - `<charge:type>` This element contains an OPTIONAL attribute “name” and indicates the charge type associated with the domain. Possible values for the element are those supported by the schema under “setTypeValue”.
 - `<charge:amount>` This element contains a REQUIRED attribute “command” and an OPTIONAL attribute “name” and describes the operation type and the charge value associated with the domain. Possible values for the attribute “command” are those supported by the schema under “commandTypeValue”.

Example <renew> command with the domain charge extension:

```
C:<?xml version="1.0" encoding="UTF-8" standalone="no"?>
C:<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
C:  <command>
C:    <renew>
C:      <domain:renew xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
C:        <domain:name>pdomain.info</domain:name>
C:        <domain:curExpDate>2026-01-28</domain:curExpDate>
C:        <domain:period unit="y">1</domain:period>
C:      </domain:renew>
C:    </renew>
C:  <extension>
C:    <charge:agreement
C:      xmlns:charge="http://www.unitedtld.com/epp/charge-1.0">
C:      <charge:set>
C:        <charge:category name="Price Category A">premium
C:      </charge:category>
C:      <charge:type>price</charge:type>
C:      <charge:amount command="renew">999.99</charge:amount>
C:    </charge:set>
C:  </charge:agreement>
C: </extension>
C:  <cI TRID>Epp.12345</cI TRID>
C: </command>
C:</epp>
```

Example <renew> response with the domain charge extension:

```
S:<?xml version="1.0" encoding="utf-8"?>
S:<epp xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
S:  xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0 epp-1.0.xsd"
S:  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:renData xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
S:       xsi:schemaLocation="urn:ietf:params:xml:ns:domain-1.0
S:         domain-1.0.xsd"
S:       xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
S:       <domain:name>pdomain.info</domain:name>
S:       <domain:exDate>2027-01-28T06:05:15.672Z</domain:exDate>
S:     </domain:renData>
S:   </resData>
S:   <extension>
S:     <charge:renData
S:       xmlns:charge="http://www.unitedtld.com/epp/charge-1.0">
S:       <charge:set>
S:         <charge:category name="Price Category A">premium
S:         </charge:category>
S:         <charge:type>price</charge:type>
S:         <charge:amount command="create">999.99</charge:amount>
S:         <charge:amount command="renew">999.99</charge:amount>
S:         <charge:amount command="transfer">750.00</charge:amount>
S:         <charge:amount command="update" name="restore">1249.99
S:         </charge:amount>
S:       </charge:set>
S:     </charge:renData>
S:   </extension>
S:   <trID>
S:     <clTRID>Epp.12345</clTRID>
S:     <svTRID>e0ffa8803a014e85b40fc9f428942762</svTRID>
S:   </trID>
S: </response>
S:</epp>
```

3.2.4. EPP <transfer> Command

The domain charge extension defines additional elements for the EPP <transfer> command. In addition to the EPP command elements described in the EPP domain name mapping [\[RFC5731\]](#), the command MAY contain an <extension> element, and that <extension> element MUST contain a child <charge:agreement> element that describes the extension namespace and contains one or more of the following child element:

- <charge:set> This element, which is returned for each charge category that applies to the domain name, describes charge information associated with each operation and contains the following child elements:
 - <charge:category> This element contains an OPTIONAL attribute “name” and describes the charge category associated with the domain.
 - <charge:type> This element contains an OPTIONAL attribute “name” and indicates the charge type associated with the domain. Possible values for the element are those supported by the schema under “setTypeValue”.
 - <charge:amount> This element contains a REQUIRED attribute "command" and an OPTIONAL attribute “name” and describes the operation type and the charge value associated with the domain. Possible values for the attribute “command” are those supported by the schema under “commandTypeValue”. Within the context of the EPP <transfer> command, the attribute "command" value MUST equal "transfer".

The presence of the <charge:agreement> element with a matching charge amount indicates that the client agrees to the specified charge(s) for the transfer of the domain name. The <charge:agreement> element's value indicates the charge amount(s) that will be applied for the domain's transfer. This is verified against the registry, before processing the command. If it does not match, then an error MUST be returned to the client.

When a <transfer> command has been processed successfully, in addition to the EPP response elements described in the EPP domain name mapping [\[RFC5731\]](#), the response MAY contain an <extension> element, and that <extension> element MUST contain a child <charge:trnData> that describes the extension namespace and contains one or more of the following child element:

- <charge:set> This element, which is returned for each charge category that applies to the domain name, describes charge information associated with each operation and contains the following child elements:
 - <charge:category> This element contains an OPTIONAL attribute “name” and describes the charge category associated with the domain.
 - <charge:type> This element contains an OPTIONAL attribute “name” and indicates the charge type associated with the domain. Possible values for the element are those supported by the schema under “setTypeValue”.
 - <charge:amount> This element contains a REQUIRED attribute "command" and an OPTIONAL attribute “name” and describes the operation type and the charge value associated with the domain. Possible values for the attribute “command” are those supported by the schema under “commandTypeValue”.

Example <transfer> command with the domain charge extension:

```
C:<?xml version="1.0" encoding="UTF-8" standalone="no"?>
C:<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
C:  <command>
C:    <transfer op="request">
C:      <domain:transfer xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
C:        <domain:name>bookshelf.plus</domain:name>
C:        <domain:authInfo>
C:          <domain:pw>password_w</domain:pw>
C:        </domain:authInfo>
C:      </domain:transfer>
C:    </transfer>
C:  <extension>
C:    <charge:agreement
C:      xmlns:charge="http://www.unitedtld.com/epp/charge-1.0">
C:      <charge:set>
C:        <charge:category name="BB">premium</charge:category>
C:        <charge:type>price</charge:type>
C:        <charge:amount command="transfer">20.00</charge:amount>
C:      </charge:set>
C:    </charge:agreement>
C:  </extension>
C:  <clTRID>EppCon.250128.041210</clTRID>
C: </command>
C:</epp>
```

Example <transfer> response with the domain charge extension:

```
S:<?xml version="1.0" encoding="utf-8"?>
S:<epp xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
S:  xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0 epp-1.0.xsd"
S:  xmlns="urn:ietf:params:xml:ns:epp-1.0">
S:  <response>
S:    <result code="1001">
S:      <msg>Command completed successfully; action pending</msg>
S:    </result>
S:    <resData>
S:      <domain:trnData xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
S:        xsi:schemaLocation="urn:ietf:params:xml:ns:domain-1.0
S:          domain-1.0.xsd"
S:        xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
S:        <domain:name>bookshelf.plus</domain:name>
```

```

S:      <domain:trStatus>pending</domain:trStatus>
S:      <domain:reID>registrar116</domain:reID>
S:      <domain:reDate>2025-01-28T19:11:26.155Z</domain:reDate>
S:      <domain:acID>registrar8041</domain:acID>
S:      <domain:acDate>2025-02-02T19:11:26.155Z</domain:acDate>
S:      <domain:exDate>2026-11-01T17:46:11.113Z</domain:exDate>
S:      </domain:trnData>
S: </resData>
S: <extension>
S:   <charge:trnData
S:     xmlns:charge="http://www.unitedtld.com/epp/charge-1.0">
S:     <charge:set>
S:       <charge:category name="BB">premium</charge:category>
S:       <charge:type>price</charge:type>
S:       <charge:amount command="create">20.00</charge:amount>
S:       <charge:amount command="renew">20.00</charge:amount>
S:       <charge:amount command="transfer">20.00</charge:amount>
S:       <charge:amount command="update" name="restore">40.00
S:     </charge:amount>
S:   </charge:set>
S: </charge:trnData>
S: </extension>
S: <trID>
S:   <clTRID>EppCon.250128.041210</clTRID>
S:   <svTRID>41182b44f2e847ce9726d1fcee4863c9</svTRID>
S: </trID>
S: </response>
S:</epp>

```

3.2.5. EPP <update> Command

The domain charge extension defines additional elements for the EPP <update> command. In addition to the EPP command elements described in the EPP domain name mapping [\[RFC5731\]](#), the command MAY contain an <extension> element, and that <extension> element MUST contain a child <charge:agreement> element that describes the extension namespace and contains one or more of the following child element:

- <charge:set> This element, which is returned for each charge category that applies to the domain name, describes charge information associated with each operation and contains the following child elements:
 - <charge:category> This element contains an OPTIONAL attribute “name” and describes the charge category associated with the domain.

- <charge:type> This element contains an OPTIONAL attribute “name” and indicates the charge type associated with the domain. Possible values for the element are those supported by the schema under “setTypeValue”.
- <charge:amount> This element contains a REQUIRED attribute "command" and an OPTIONAL attribute “name” and describes the operation type and the charge value associated with the domain. Possible values for the attribute “command” are those supported by the schema under “commandTypeValue”. Within the context of the EPP <update> command, the attribute "command" value MUST equal "update".

The presence of the <charge:agreement> element with a matching charge amount indicates that the client agrees to the specified charge(s) for the update of the domain name. The <charge:agreement> element's value indicates the charge amount(s) that will be applied for the domain's update. This is verified against the registry, before processing the command. If it does not match, then an error MUST be returned to the client.

When an <update> command has been processed successfully, in addition to the EPP response elements described in the EPP domain name mapping [[RFC5731](#)], the response MAY contain an <extension> element, and that <extension> element MUST contain a child <charge:upData> element that describes the extension namespace and contains one or more of the following child element:

- <charge:set> This element, which is returned for each charge category that applies to the domain name, describes charge information associated with each operation and contains the following child elements:
 - <charge:category> This element contains an OPTIONAL attribute “name” and describes the charge category associated with the domain.
 - <charge:type> This element contains an OPTIONAL attribute “name” and indicates the charge type associated with the domain. Possible values for the element are those supported by the schema under “setTypeValue”.
 - <charge:amount> This element contains a REQUIRED attribute "command" and an OPTIONAL attribute “name” and describes the operation type and the charge value associated with the domain. Possible values for the attribute “command” are those supported by the schema under “commandTypeValue”.

Example <update> command with the domain charge extension:

```
C:<?xml version="1.0" encoding="utf-8"?>
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>bookshelf.plus</domain:name>
C:        <domain:chg/>
C:      </domain:update>
C:    </update>
```

```

C: <extension>
C:   <rgp:update xmlns:rgp="urn:ietf:params:xml:ns:rgp-1.0">
C:     <rgp:restore op="request"/>
C:   </rgp:update>
C:   <charge:agreement
C:     xmlns:charge="http://www.unitedtld.com/epp/charge-1.0">
C:     <charge:set>
C:       <charge:category name="BB">premium</charge:category>
C:       <charge:type>price</charge:type>
C:       <charge:amount command="update" name="restore">40.00
C:     </charge:amount>
C:     </charge:set>
C:   </charge:agreement>
C: </extension>
C: <clTRID>EppCon.250128.041210</clTRID>
C: </command>
C:</epp>

```

Example <update> response with the domain charge extension:

```

S:<?xml version="1.0" encoding="utf-8"?>
S:<epp xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
S:  xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0
S:  epp-1.0.xsd"
S:  xmlns="urn:ietf:params:xml:ns:epp-1.0">
S: <response>
S:   <result code="1001">
S:     <msg>Command completed successfully; action pending</msg>
S:   </result>
S:   <extension>
S:     <rgp:upData xmlns:rgp="urn:ietf:params:xml:ns:rgp-1.0">
S:       <rgp:rgpStatus s="pendingRestore"/>
S:     </rgp:upData>
S:     <charge:upData
S:       xmlns:charge="http://www.unitedtld.com/epp/charge-1.0">
S:       <charge:set>
S:         <charge:category name="BB">premium</charge:category>
S:         <charge:type>price</charge:type>
S:         <charge:amount command="create">20.00</charge:amount>
S:         <charge:amount command="renew">20.00</charge:amount>
S:         <charge:amount command="transfer">20.00</charge:amount>
S:         <charge:amount command="update" name="restore">40.00
S:       </charge:amount>

```

```
S:      </charge:set>
S:      </charge:upData>
S:      </extension>
S:      <trID>
S:      <clTRID>EppCon.250128.041210</clTRID>
S:      <svTRID>610fb90c5f8649b997ed5b7755e7002c</svTRID>
S:      </trID>
S:      </response>
S:</epp>
```

4. Formal Syntax

One schema presented here is the Domain Charge Extension schema. 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.

4.1. Domain Charge Extension Schema

BEGIN

```
<?xml version="1.0" encoding="utf-8"?>
<schema xmlns="http://www.w3.org/2001/XMLSchema"
  xmlns:charge="http://www.unitedtld.com/epp/charge-1.0"
  xmlns:eppcom="urn:ietf:params:xml:ns:eppcom-1.0"
  targetNamespace="http://www.unitedtld.com/epp/charge-1.0"
  elementFormDefault="qualified">

  <!-- Import common element types -->
  <import namespace="urn:ietf:params:xml:ns:eppcom-1.0"/>

  <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"/>

<simpleType name="setTypeValue">
  <restriction base="token">
    <enumeration value="fee"/>
    <enumeration value="price"/>
    <enumeration value="credit"/>
    <enumeration value="custom"/>
  </restriction>
</simpleType>

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

<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>

<complexType name="categoryType">
  <simpleContent>
    <extension base="token">
      <attribute name="name" type="token" use="optional"/>
    </extension>
  </simpleContent>
</complexType>

<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>

<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 name="set" type="charge:setType" maxOccurs="unbounded"/>
  </sequence>
</complexType>

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

```

</sequence>
</complexType>

</schema>
END

5. Security Considerations

The mapping extensions described in this document do not provide any security services beyond those described by EPP [STD69] and protocol layers used by EPP. The security considerations described in these other specifications apply to this specification as well.

6. 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, <<https://www.rfc-editor.org/info/rfc2119>>.
- [RFC5730] Hollenbeck, S., "Extensible Provisioning Protocol (EPP)", STD 69, RFC 5730, DOI 10.17487/RFC5730, August 2009, <<https://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, <<https://www.rfc-editor.org/info/rfc5731>>.
- [STD69] Internet Standard 69, <<https://www.rfc-editor.org/info/std69>>. At the time of writing, this STD comprises the following:
- Hollenbeck, S., "Extensible Provisioning Protocol (EPP)", STD 69, RFC 5730, DOI 10.17487/RFC5730, August 2009, <<https://www.rfc-editor.org/info/rfc5730>>.
 - Hollenbeck, S., "Extensible Provisioning Protocol (EPP) Domain Name Mapping", STD 69, RFC 5731, DOI 10.17487/RFC5731, August 2009, <<https://www.rfc-editor.org/info/rfc5731>>.
 - Hollenbeck, S., "Extensible Provisioning Protocol (EPP) Host Mapping", STD 69, RFC 5732, DOI 10.17487/RFC5732, August 2009, <<https://www.rfc-editor.org/info/rfc5732>>.
 - Hollenbeck, S., "Extensible Provisioning Protocol (EPP) Contact Mapping", STD 69, RFC 5733, DOI 10.17487/RFC5733, August 2009, <<https://www.rfc-editor.org/info/rfc5733>>.
 - Hollenbeck, S., "Extensible Provisioning Protocol (EPP) Transport over TCP", STD 69, RFC 5734, DOI 10.17487/RFC5734, August 2009, <<https://www.rfc-editor.org/info/rfc5734>>.