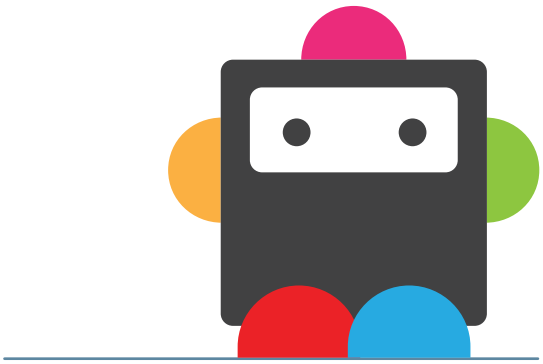
Domainbox

Out of the box domain solutions



COMMANDS

September 2014

V1.3

Domainbox

Login Details & Important Information

LOGIN DETAILS

Reseller

Username

Password

NOTES:

PLEASE NOTE

- Parameters marked "R" are required parameters.

Index and Command List

Domainbox

Command Change Log

	DATE	COMMAND	DESCRIPTION OF CHANGE
✚	17th Sept 2014	EPP Overview Domain Check Domain Info Domain Create	Commands updated.
★	28th Jun 2013	EPP Commands.	New Commands created.

Legend:

★ *New command.* ✚ *Function added to existing command* ⇄ *Change to function of existing command.*

EPP Overview and Validation Notes

The Domainbox EPP server provides the ability to conduct domain, contact and host object transactions using RFC standard EPP XML.

The server has been designed to adhere to the following RFCs:

- RFC 5730 Extensible Provisioning Protocol (EPP)
- RFC 5731 Extensible Provisioning Protocol (EPP) Domain Name Mapping
- RFC 5732 Extensible Provisioning Protocol (EPP) Host Mapping
- RFC 5733 Extensible Provisioning Protocol (EPP) Contact Mapping

Additionally connection to the server is governed by the following RFCs:

- RFC 5734 Extensible Provisioning Protocol (EPP) Transport over TCP

The EPP server is configured with the following extension support; these should be specified as part of the login command

- RFC 5910 Domain Name System (DNS) Security Extensions Mapping for EPP
  urn:ietf:params:xml:ns:secDNS-1.1
- draft-ietf-eppext-launchphase-01 – Launch Phase Mapping for EPP
  urn:ietf:params:xml:ns:launch-1.0
- Custom Extension for specifying additional data
  http://domainbox.net/xml/domainbox-ext-1.0

All requests sent to the server will be validated against the standard EPP schemas; it is recommended that all requests are pre-validated by the client to reduce the number of potential errors. The XML request must pass validation using the following schemas:

- epp-1.0
- domain-1.0
- contact-1.0
- host-1.0
- secDNS-1.1
- launch-1.0
- domainbox-ext-1.0

The necessary XSD files can be downloaded via the admin portal from the Documentation section; additionally we provide copies of the EPP RFCs for reference.

Please note, due to the nature of the server's intended operation e.g. reseller to registrar communication, as opposed to registrar to registry EPP protocol, some command behaviours may differ slightly from registrar to registry operation. This is documented in each command where relevant.

Connecting to the server

Server Details

The following details should be used when connecting to the server, please use only the fully qualified domain name, as the IP address may change due to load balancing.

Live Server

Hostname: epp.domainbox.net
Port : 700
SSL Required: YES
Client Certificated Required: YES

Sandbox Server

Hostname: epp-sandbox.domainbox.net
Port: 3121
SSL Required: YES
Client Certificate Required: NO

When connecting to the server, SSL is required for both the Live and Sandbox servers; however the Sandbox server does not perform validation on the certificate offered by your client, for live we require that your certificate is signed by one of our approved certificate authorities. Please contact Support for further assistance.

It is recommended that your client validates the certificate offered by the server to ensure security of the connection, you can find this in the Documentation section of the Admin portal.

User Credentials

In order to connect to the server, you must create a user who has the necessary EPP role assigned using the Admin Portal or SOAP API, additionally you must provide a list of IP addresses or IP address ranges that your client will be connecting from. When selecting an EPP username and password the following rules apply:

- The username must be between 3 and 16 characters.
- The username may only contain letters and numbers.
- The password must be between 6 and 16 characters.
- The password may contain letters, numbers and the following symbols: ! # $ % _ - = +

The password for the account may be updated using either the Admin portal, or the EPP <login> command.

Connection limits and rate limiting

Users are permitted to maintain up to 5 simultaneous connections to the server per reseller; this may be from a single IP address or 5 different addresses. On receipt of a 6th connection attempt this request will be rejected.

A connection may be idle for a period of 1 hour, after this time the connection will be closed by the server and the slot will be become available for reconnection if required. The client may keep connections alive longer by issuing the Hello command periodically.

Should the client unexpectedly lose connection to the server, this will be detected and the connection slot freed up immediately, it is recommended that clients issue a Logout command prior to disconnection to cleanly end the session.

Certain commands are limited by the server in order to protect the integrity and performance of the service; these limits are assessed on a rolling 24 hour basis.

- Domain Check – 5000, exceeding the limit will not suspend access; however no check results will be returned, instead a 2201 Authorization Error will be returned with a <value> tag indicating that the daily limit has been met
- Domain Create on already registered domains – 15 per day, any subsequent requests will result in the client having their EPP access suspended for 24 hours.
- All other commands are unrestricted, subject to fair use monitoring.

It is possible to adjust the limits on a per reseller basis depending on individual requirements. Please contact support for futher assistance.

Pipelining (Asynchronous operation)

The server supports pipelining, this means the client may send the next request before receiving a response. Please be aware that the server will always process requests in the order they are received from the client, regardless of the number of commands sent.

IDN Support

The server fully supports the creation and management of IDN domain names providing the registry who manage this TLD support them. When performing operations on IDN domain names, the client must use the Punycode (ASCII) representation, rather than the Unicode one. For example, the domain malmö.com should be provided as xn--malm-8qa.com.

Session Management

Hello

Used to request a greeting from the server.

• This command can be used to keep alive a connection by sending it before the pre-defined timeout.

• The response lists all of the objects and extensions supported by the server.

Parameters

This command has no request parameters.

Example Request

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <hello/>
</epp>
```

Example Response

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <greeting>
    <svID>Domainbox EPP Server</svID>
    <svDate>2013-06-11T10:13:04.0580Z</svDate>
    <svcMenu>
      <version>1.0</version>
      <lang>en</lang>
      <objURI>urn:ietf:params:xml:ns:domain-1.0</objURI>
      <objURI>urn:ietf:params:xml:ns:contact-1.0</objURI>
      <objURI>urn:ietf:params:xml:ns:host-1.0</objURI>
      <svcExtension>
        <extURI>urn:ietf:params:xml:ns:secDNS-1.1</extURI>
      </svcExtension>
    </svcMenu>
    <dcp>
      <access>
        <all/>
      </access>
      <statement>
        <purpose>
          <admin/>
          <other/>
          <prov/>
        </purpose>
        <recipient>
          <ours/>
          <public/>
          <unrelated/>
        </recipient>
        <retention>
          <indefinite/>
        </retention>
      </statement>
    </dcp>
  </greeting>
</epp>
```

Login

Allows the client to authenticate with the server using the supplied username and password.

• Additionally allows the client to modify the user password.

• Providing an invalid username and password will not terminate the connection immediately.

• The client may send additional up to 5 login attempts, after which the connection will be closed and the user suspended for 1 hour.

Parameters

	Parameter	Count	Details
R	clID	1	The username to authenticate as
R	pw	1	The password for the above user
	newPW	0-1	Sets a new password for the user
R	version	1	The protocol version to use (requires 1.0)
R	lang	1	What language to return messages in (en only)
R	objURI	1+	Lists the services this session will use
	extURI	0+	Lists the optional extensions the session will use
	clTRID	0-1	A client assigned transaction ID (returned by server in response)

Example Request

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <command>
    <login>
      <clID>username</clID>
      <pw>password</pw>
      <options>
        <version>1.0</version>
        <lang>en</lang>
      </options>
      <svcs>
        <objURI>urn:ietf:params:xml:ns:domain-1.0</objURI>
        <objURI>urn:ietf:params:xml:ns:contact-1.0</objURI>
        <objURI>urn:ietf:params:xml:ns:host-1.0</objURI>
        <svcExtension>
          <extURI>urn:ietf:params:xml:ns:secDNS-1.1</extURI>
        </svcExtension>
      </svcs>
    </login>
    <clTRID>QWERTY-12345</clTRID>
  </command>
</epp>
```

Example Response - Succesful Login

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000">
      <msg>Command completed successfully</msg>
      <value>
        <text>Welcome username</text>
      </value>
```

```
    </result>
    <trID>
      <clTRID>QWERTY-12345</clTRID>
      <svTRID>B5BEC352-300D-4700-85BC-3B70C68DA5BD</svTRID>
    </trID>
  </response>
</epp>
```

Example Response - Authentication Error

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="2200">
      <msg>Authentication error</msg>
    </result>
    <trID>
      <clTRID>QWERTY-12345</clTRID>
      <svTRID>B103E598-9D54-4650-B97E-C5522D7A2569</svTRID>
    </trID>
  </response>
</epp>
```

Example Response - Multiple Failures

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="2501">
      <msg>Authentication error; server closing connection</msg>
    </result>
    <trID>
      <clTRID>QWERTY-12345</clTRID>
      <svTRID>49FC8976-350F-40A7-B208-D345A7708656</svTRID>
    </trID>
  </response>
</epp>
```

Logout

Closes the connection the server cleanly, it is recommended that all clients issue this command prior to disconnection.

Parameters

	Parameter	Count	Details
	clTRID	0-1	A client assigned transaction ID (returned by server in response).

Example Request

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <command>
    <logout/>
    <clTRID>QWERTY-12345</clTRID>
  </command>
</epp>
```

Example Response

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1500">
      <msg>Command completed successfully; ending session</msg>
    </result>
    <trID>
      <clTRID>QWERTY-12345</clTRID>
      <svTRID>DF2884E8-4F4E-44F7-8671-88A926C225B4</svTRID>
    </trID>
  </response>
</epp>
```

Domain Management

Check

Checks the availability of up to 10 domain names against the registry.

• Submitting more than 10 domain names will result in an error response being returned and none of the domains being checked.

• Submitting and invalid domain name or TLD will only affect that result; other domains will still be checked.

Launch Phase Extensions

The check command can be used to check the available of up to 10 domains against multiple launch phases using the launch phase extension.

When performing a claims check against a domain two extensions are returned, the first is the traditional launch-1.0 extension. This should be used when checking the availability of a domain against different phases (Landrush/Sunrise). The second one is the domainbox-ext-1.0 extension, this should be used when checking for the existence of a trademark claim on the domain.

> The <domainbox:noticeHtml> element returned is base64 encoded, this HTML should be displayed to the end user prior to submitting the registration for the domain.

Parameters

	Parameter	Count	Details
R	name	1-10	The domain name to check (include TLD).
	clTRID	0-1	A client assigned transaction ID (returned by server in response).

Extension Parameters

	Parameter	Count	Details
R	phase	1	The launch phase to check, valid phases are: claims landrush sunrise open custom
R	type	1	The type of check to perform, this can be one of “avail” or “claims”. This parameter is an attribute on the <launch:check> element. - Use “avail” to check the domains availability against the specified phase. - Use “claims” to check for the existence of a trademark claim on the domain.

Example Request

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <command>
    <check>
      <domain:check xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
        <domain:name>example.org</domain:name>
        <domain:name>example.com</domain:name>
        <domain:name>example.net</domain:name>
      </domain:check>
    </check>
    <clTRID>QWERTY-12345</clTRID>
  </command>
</epp>
```

Example Response

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

```
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000">
      <msg>Command completed successfully</msg>
    </result>
    <resData>
      <domain:chkData xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
        <domain:cd>
          <domain:name avail="0">example.org</domain:name>
        </domain:cd>
        <domain:cd>
          <domain:name avail="0">example.com</domain:name>
        </domain:cd>
         <domain:cd>
          <domain:name avail="0">example.net</domain:name>
        </domain:cd>
      </domain:chkData>
    </resData>
    <trID>
      <clTRID>QWERTY-12345</clTRID>
      <svTRID>6AAE1713-9256-433E-A1A2-D10A32112F59</svTRID>
    </trID>
  </response>
</epp>
```

Example Request - Claims Check

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <command>
    <check>
       <domain:check xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
        <domain:name>testvalidate.xyz</domain:name>
      </domain:check>
    </check>
    <extension>
      <launch:check xmlns:launch="urn:ietf:params:xml:ns:launch-1.0" type="claims">
        <launch:phase>claims</launch:phase>
      </launch:check>
    </extension>
    <clTRID>QWERTY-12345</clTRID>
  </command>
</epp>
```

Example Response - Claims Check

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000">
      <msg>Command completed successfully</msg>
    </result>
    <extension>
      <launch:chkData xmlns:launch="urn:ietf:params:xml:ns:launch-1.0">
        <launch:phase>claims</launch:phase>
        <launch:cd>
          <launch:name exists="true">testvalidate.xyz</launch:name>
```

```
          <launch:claimKey>0bae69b2-323b-40dc-ba26-dff33210474e</launch:claimKey>
        </launch:cd>
      </launch:chkData>
      <domainbox:chkData xmlns:domainbox="http://domainbox.net/xml/domainbox-
ext-1.0">
        <domainbox:phase>claims</domainbox:phase>
        <domainbox:cd>
          <domainbox:name exists="true">testvalidate.xyz</domainbox:name>
          <domainbox:claimKey>0bae69b2-323b-40dc-ba26-dff33210474e</
domainbox:claimKey>
          <domainbox:noticeHtml>PGh0bWw+…aHRtbD4=</domainbox:noticeHtml>
          <domainbox:notAfter>2014-06-09T11:14:39Z</domainbox:notAfter>
        </domainbox:cd>
      </domainbox:chkData>
    </extension>
    <trID>
      <clTRID>QWERTY-12345</clTRID>
      <svTRID>D26B1737-19D1-4555-8BA7-483D470EA583</svTRID>
    </trID>
  </response>
</epp>
```

Info

Queries the server for information about the specified domain name.

• This command can only be issued if the authenticated user is the owner of the domain name, otherwise an authorization error will be returned by the server.

• The clID returned by the server indicates the current reseller that owns the domain. Please note that this is not the current registrar.

Parameters

	Parameter	Count	Details
R	name	1	The domain name to be queried (include TLD).
	clTRID	0-1	A client assigned transaction ID (returned by server in response).

Example Request

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <command>
    <info>
      <domain:info xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
        <domain:name>example.org</domain:name>
      </domain:info>
    </info>
    <clTRID>QWERTY-12345</clTRID>
  </command>
</epp>
```

Example Response

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000">
      <msg>Command completed successfully</msg>
    </result>
    <resData>
      <domain:infData xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
        <domain:name>example.org</domain:name>
        <domain:roid>138381-DOM</domain:roid>
        <domain:status s="ok"/>
        <domain:registrant>50449</domain:registrant>
        <domain:contact type="admin">50449</domain:contact>
        <domain:contact type="tech">50449</domain:contact>
        <domain:contact type="billing">50449</domain:contact>
        <domain:host>ns1.example.org</domain:host>
        <domain:host>ns2.example.org</domain:host>
        <domain:clID>629</domain:clID>
        <domain:crDate>2013-04-17T00:00:00.0Z</domain:crDate>
        <domain:exDate>2015-04-17T00:00:00.0Z</domain:exDate>
        <domain:authInfo>
          <domain:pw>password-23*</domain:pw>
        </domain:authInfo>
      </domain:infData>
    </resData>
    <trID>
      <clTRID>QWERTY-12345</clTRID>
      <svTRID>3BEFFBC4-0D03-4636-8AFB-CB97B832EE26</svTRID>
```

```
    </trID>
  </response>
</epp>
```

Example Response - Authorization Error

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="2202">
      <msg>Authorization error</msg>
    </result>
    <trID>
      <clTRID>QWERTY-12345</clTRID>
      <svTRID>DF525802-265F-4CB0-AA14-633401B737FC</svTRID>
    </trID>
  </response>
</epp>
```

Create

Requests that the specified domain name be registered,

• Requires the requested contacts to exist already.

• If the period parameter is left out the default registration for all TLDs is 1 year (unless restricted by registry policy).

• While 3 domain:contact parameters are expected by the server, there should only be one of each type of 'billing' 'admin' and 'tech' contact (see example below). Submitting a request with multiples of a single type will result in an error response being returned.

• The period parameter accepts values in the range of 1-10 for most TLDs however some registries restrict the length of time a domain can be registered for.

• The pw parameter is required for all requests; even for TLDs that do not use this method for domain transfers. This is to ensure that all requests conform to the EPP schemas when performing validation.

Creating a domain during a Launch Phase

In order to submit an application for a domain at a launch phase it is necessary to use the launch-1.0 extension. Additionally, for 90 days after the first open phases starts, it is necessary to provide acknowledgement of any trademark claims on the domain.

Parameters

	Parameter	Count	Details
R	name	1	The domain name to register (including TLD).
	period	0-1	Number of years to register the domain for, valid values are 1-10.
	hostObj	0-13	List of name servers to apply to the domain.
R	pw	1	The authorization code to set on the domain.
R	registrant	1	The contact object to assign as the registrant for the domain.
R	contact	3	The admin, tech and billing contacts for the domain.
	clTRID	0-1	A client assigned transaction ID (returned by server in response).

Extension Parameters

	Parameter	Count	Details
R	phase	1	The launch phase to create the domain

Example Request

```
<?xml version="1.0" encoding="UTF-8"?>
<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>example.com</domain:name>
        <domain:period unit="y">1</domain:period>
        <domain:ns>
          <domain:hostObj>ns1.dnsfarm.org</domain:hostObj>
          <domain:hostObj>ns2.dnsfarm.org</domain:hostObj>
          <domain:hostObj>ns3.dnsfarm.org</domain:hostObj>
        </domain:ns>
        <domain:registrant>123456789</domain:registrant>
        <domain:contact type="admin">123456789</domain:contact>
        <domain:contact type="tech">123456789</domain:contact>
        <domain:contact type="billing">123456789</domain:contact>
        <domain:authInfo>
```

```
          <domain:pw>sampleAuthInfo</domain:pw>
        </domain:authInfo>
      </domain:create>
    </create>
    <clTRID>QWERTY-12345</clTRID>
  </command>
</epp>
```

Example Response

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000">
      <msg>Command completed successfully</msg>
    </result>
    <resData>
      <domain:creData xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
        <domain:name>example.com</domain:name>
        <domain:crDate>2013-06-11T13:15:02.0Z</domain:crDate>
        <domain:exDate>2014-06-11T00:00:00.0Z</domain:exDate>
      </domain:creData>
    </resData>
    <trID>
      <clTRID>QWERTY-12345</clTRID>
      <svTRID>0E5CB0C5-587B-4D94-8CAE-53845ECCDA96</svTRID>
    </trID>
  </response>
</epp>
```

Update

Allows the specified domain name to be updated.

• This command allows the following changes to be made to the domain (subject to registry policy):
  • Add/Remove Name servers.
  • Add/Remove Lock status.
  • Change the domain's registrant.
  • Change the authorization code.
  • Change admin, tech and billing contacts.

• The update command can only be used if the domain does not currently have the clientUpdateProhibited status applied to it. Alternatively this status can be removed as part of the Update command.

• Should the clientUpdateProhibited status be present on the domain, or not included to remove with the request, an error message will be returned informing the user that the requested operation is prohibited.

• When attempting to remove an object from the domain, it must be present on the domain for the command to be successful; similarly the object must not be present when attempting to add it.

• Domains may only have one admin, tech and billing contact at any time. To change either of these contacts, the new ID should be specified in the domain:add parameter, while also specifying the existing ID in the domain:rem parameter.

• The parameters for this command must appear in the XML in the order listed below.

Parameters

	Parameter	Count	Details
	add	0-1	Contains the objects to be added to the domain.
	rem	0-1	Contains the objects to be removed from the domain.
	chg	0-1	Contains the objects to be changed on the domain.
	clTRID	0-1	A client assigned transaction ID (returned by server in response).

• The following are the parameters for the 'add' and 'rem' sections of the XML request

	Parameter	Count	Details
	hostObj	0-13	Host object to add or remove from the domain
	status	0-4	Status object to add or remove from the domain
	contact	0-3	Contact object to add or remove from the domain.

• The following are the parameters for the 'chg' sections of the XML request

	Parameter	Count	Details
	pw	0-1	The new authorisation code to be applied to the domain.
	registrant	0-1	The contact object to use for the new registrant on the domain.

Example Request - Change name servers on domain

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <command>
    <update>
      <domain:update xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
        <domain:name>example.com</domain:name>
        <domain:add>
          <domain:ns>
            <domain:hostObj>ns1.example.com</domain:hostObj>
            <domain:hostObj>ns2.example.com</domain:hostObj>
            <domain:hostObj>ns3.example.com</domain:hostObj>
```

```
          </domain:ns>
        </domain:add>
        <domain:rem>
          <domain:ns>
            <domain:hostObj>ns1.dnsfarm.org</domain:hostObj>
            <domain:hostObj>ns2.dnsfarm.org</domain:hostObj>
            <domain:hostObj>ns3.dnsfarm.org</domain:hostObj>
          </domain:ns>
        </domain:rem>
        <domain:chg/>
      </domain:update>
    </update>
    <clTRID>QWERTY-12345</clTRID>
  </command>
</epp>
```

Example Request - Remove Lock status

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <command>
    <update>
      <domain:update xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
        <domain:name>example.com</domain:name>
        <domain:add/>
        <domain:rem>
          <domain:status s="clientDeleteProhibited"/>
          <domain:status s="clientHold"/>
          <domain:status s="clientRenewProhibited"/>
          <domain:status s="clientTransferProhibited"/>
          <domain:status s="clientUpdateProhibited"/>
        </domain:rem>
        <domain:chg/>
      </domain:update>
    </update>
    <clTRID>QWERTY-12345</clTRID>
  </command>
</epp>
```

Example Request - Change the authorisation code and registrant

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <command>
    <update>
      <domain:update xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
        <domain:name>example.com</domain:name>
        <domain:add/>
        <domain:rem/>
        <domain:chg>
          <domain:registrant>123456789</domain:registrant>
          <domain:authInfo>
            <domain:pw>passwd-21*</domain:pw>
          </domain:authInfo>
        </domain:chg>
      </domain:update>
    </update>
    <clTRID>QWERTY-12345</clTRID>
```

```
  </command>
</epp>
```

Example Response

• In all cases the following response will be returned when the command is successful, no additional data is returned as a result of the Update command.

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000">
      <msg>Command completed successfully</msg>
    </result>
    <trID>
      <clTRID>QWERTY-12345</clTRID>
      <svTRID>18A3C65E-0116-4EBD-8EE0-EAA00B344530</svTRID>
    </trID>
  </response>
</epp>
```

Delete

Allows the specified domain be deleted.

• Depending of the current status of the domain, it will either be deleted instantly, or enter the registry defined redemption period.

• Domains can only be deleted if they do not have the clientDeleteProhibited status currently applied.

• A successful response to this command does not indicate that the fee for this domain has been refunded.

Parameters

	Parameter	Count	Details
R	name	1	The name of the domain to delete.
	clTRID	0-1	A client assigned transaction ID (returned by server in response)

Example Request

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000">
      <msg>Command completed successfully</msg>
    </result>
    <trID>
      <clTRID>QWERTY-12345</clTRID>
      <svTRID>0A13AEDF-C948-4A01-964D-B7F4C316FEDF</svTRID>
    </trID>
  </response>
</epp>
```

Example Response - Domain has been instantly deleted by registry

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000">
      <msg>Command completed successfully</msg>
    </result>
    <trID>
      <clTRID>QWERTY-12345</clTRID>
      <svTRID>0A13AEDF-C948-4A01-964D-B7F4C316FEDF</svTRID>
    </trID>
  </response>
</epp>
```

Example Response - Domain has entered registry defined redemption period

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1001">
      <msg>Command completed successfully; action pending</msg>
    </result>
    <trID>
      <clTRID>QWERTY-12345</clTRID>
      <svTRID>3FC46F9A-86EC-4320-B057-6C2E3BCD3FBC</svTRID>
    </trID>
  </response>
</epp>
```

Renew

Extends the registration term of the specified domain, subject to registry policy and available funds.

• In most cases the domain can be renewed up to 10 years in total, however some domain renewal lengths may vary.

• If the period parameter is not supplied, the domain will be renewed for 1 year (subject to registry policy).

• Only yearly periods are supported by the server.

• The period parameter should be provided without any additional attributes.

Parameters

	Parameter	Count	Details
R	name	1	The name of the domain to delete.
	clTRID	0-1	A client assigned transaction ID (returned by server in response)
R	curExpDate	1	The current expiry date for the domain.
	period	0-1	Number of years to renew the domain for.

Example Request

```
<?xml version="1.0" encoding="UTF-8"?>
<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>example.com</domain:name>
        <domain:curExpDate>2014-06-11</domain:curExpDate>
        <domain:period unit="y">5</domain:period>
      </domain:renew>
    </renew>
    <clTRID>QWERTY-12345</clTRID>
  </command>
</epp>
```

Example Response

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000">
      <msg>Command completed successfully</msg>
    </result>
    <resData>
      <domain:renData xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
        <domain:name>example.com</domain:name>
        <domain:exDate>2019-06-11T00:00:00.0Z</domain:exDate>
      </domain:renData>
    </resData>
    <trID>
      <clTRID>QWERTY-12345</clTRID>
      <svTRID>68FD2E45-1400-4C11-B31F-564961D72D30</svTRID>
    </trID>
  </response>
</epp>
```

Transfer Request

Requests the transfer-in of the specified domain.

• All transfers-in are for a single year only. It is not possible to use the period parameter to perform multi-year transfers. The period parameter will simply be ignored if present in the request XML.

• The pw parameter is not required, and if supplied will not be checked by the server.

• This command will not begin a transfer directly with the registry. Once a successful response to this command has been received, the admin contact on the domain will be contacted via email. This will begin the transfer process and it is at this point where the domain auth code is validated.

Parameters

	Parameter	Count	Details
R	name	1	The name of the domain to transfer.
	pw	0-1	The authorisation code for the domain to be transferred
	clTRID	0-1	A client assigned transaction ID (returned by server in response)

Example Request

```
<?xml version="1.0" encoding="UTF-8"?>
<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>example.com</domain:name>
        <domain:authInfo>
          <domain:pw>exampleAuthInfo</domain:pw>
        </domain:authInfo>
      </domain:transfer>
    </transfer>
    <clTRID>QWERTY-12345</clTRID>
  </command>
</epp>
```

Example Response

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1001">
      <msg>Command completed successfully; action pending</msg>
      <value>
        <text>acID is unknown until transfer enters processing, acDate shows the date
this request will time out if no further action is taken.</text>
      </value>
    </result>
    <resData>
      <domain:trnData xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
        <domain:name>example.com</domain:name>
        <domain:trStatus>pending</domain:trStatus>
        <domain:reID>reseller</domain:reID>
        <domain:reDate>2013-06-11T15:22:17Z</domain:reDate>
        <domain:acID>unknown</domain:acID>
        <domain:acDate>2013-06-16T15:22:17Z</domain:acDate>
      </domain:trnData>
    </resData>
```

```
    <trID>
      <clTRID>QWERTY-12345</clTRID>
      <svTRID>0168D2B2-9047-4686-BFC5-595D33A6CE39</svTRID>
    </trID>
  </response>
</epp>
```

Transfer Query

Queries the current status of a transfer (applies to domains that are both incoming and outgoing transfers).

• The pw parameter is not required for this command and will be ignored if provided.

Parameters

	Parameter	Count	Details
R	name	1	The name of the domain in transfer.
	pw	0-1	The authorisation code for the domain being transferred
	clTRID	0-1	A client assigned transaction ID (returned by server in response)

Example Request

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <command>
    <transfer op="query">
      <domain:transfer xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
        <domain:name>example.com</domain:name>
        <domain:authInfo>
          <domain:pw>exampleAuthInfo</domain:pw>
        </domain:authInfo>
      </domain:transfer>
    </transfer>
    <clTRID>QWERTY-12345</clTRID>
  </command>
</epp>
```

Example Response

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1001">
      <msg>Command completed successfully; action pending</msg>
      <value>
        <text>acID is unknown until transfer enters processing, acDate shows the date
this request will time out if no further action is taken.</text>
      </value>
    </result>
    <resData>
      <domain:trnData xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
        <domain:name>example.com</domain:name>
        <domain:trStatus>pending</domain:trStatus>
        <domain:reID>reseller</domain:reID>
        <domain:reDate>2013-06-11T15:22:17Z</domain:reDate>
        <domain:acID>unknown</domain:acID>
        <domain:acDate>2013-06-16T15:22:17Z</domain:acDate>
      </domain:trnData>
    </resData>
    <trID>
      <clTRID>QWERTY-12345</clTRID>
      <svTRID>0168D2B2-9047-4686-BFC5-595D33A6CE39</svTRID>
    </trID>
  </response>
</epp>
```

Transfer Cancel

Cancels the transfer in request on the specified domain.

• This can only be done when the transfer is in Pending status.

• The pw parameter is not required for this command and will be ignored if provided.

Parameters

	Parameter	Count	Details
R	name	1	The name of the domain in transfer.
	pw	0-1	The authorisation code for the domain being transferred
	clTRID	0-1	A client assigned transaction ID (returned by server in response)

Example Request

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <command>
    <transfer op="cancel">
      <domain:transfer xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
        <domain:name>example.com</domain:name>
        <domain:authInfo>
          <domain:pw>exampleAuthInfo</domain:pw>
        </domain:authInfo>
      </domain:transfer>
    </transfer>
    <clTRID>QWERTY-12345</clTRID>
  </command>
</epp>
```

Example Response

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000">
      <msg>Command completed successfully</msg>
    </result>
    <trID>
      <clTRID>QWERTY-12345</clTRID>
      <svTRID>E06A516B-F1F7-4753-9A7C-DF5B2E9B003C</svTRID>
    </trID>
  </response>
</epp>
```

Transfer Approve

Confirms a transfer-away request on the specified domain.

• This stops the end user needing to wait the standard 5 days for the transfer away to complete automatically.

• Issuing this command will result in the domain name no longer being under control of the authorized user.

• The pw parameter is not required for this command and will be ignored if provided.

Parameters

	Parameter	Count	Details
R	name	1	The name of the domain that is transferring away
	pw	0-1	The authorisation code for the domain being transferred away
	clTRID	0-1	A client assigned transaction ID (returned by server in response)

Example Request

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <command>
    <transfer op="approve">
      <domain:transfer xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
        <domain:name>example.com</domain:name>
        <domain:authInfo>
          <domain:pw>exampleAuthInfo</domain:pw>
        </domain:authInfo>
      </domain:transfer>
    </transfer>
    <clTRID>QWERTY-12345</clTRID>
  </command>
</epp>
```

Example Response

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000">
      <msg>Command completed successfully</msg>
    </result>
    <trID>
      <clTRID>QWERTY-12345</clTRID>
      <svTRID>D67E2E32-820C-4221-ADAC-221390C1BDAF</svTRID>
    </trID>
  </response>
</epp>
```

Transfer Reject

Prevents a domain from being transferred away from the current authorized user.

- The only situations where this can be used are as follows:
    - Evidence Of Fraud
    - UDRP Action
    - Court Order
    - Dispute Over Identity
    - No Payment For Previous Registration Period
    - Written Objection

Parameters

	Parameter	Count	Details
R	name	1	The name of the domain that is transferring away
	pw	0-1	The authorisation code for the domain being transferred away
	clTRID	0-1	A client assigned transaction ID (returned by server in response)

Example Request

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <command>
    <transfer op="reject">
      <domain:transfer xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
        <domain:name>example.com</domain:name>
        <domain:authInfo>
          <domain:pw>exampleAuthInfo</domain:pw>
        </domain:authInfo>
      </domain:transfer>
    </transfer>
    <clTRID>QWERTY-12345</clTRID>
  </command>
</epp>
```

Example Response

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000">
      <msg>Command completed successfully</msg>
    </result>
    <trID>
      <clTRID>QWERTY-12345</clTRID>
      <svTRID>427D6049-5904-4725-8DD8-0E484A3B6F70</svTRID>
    </trID>
  </response>
</epp>
```

Contact Management

Create

Creates a contact with the specified details.

• The contact:id parameter is required but is ignored by the server, this is due to EPP policy. IDs are automatically generated by the server.

• When creating contacts on the server please ensure the contact:id from the response is retained, as this is uniquely generated by the server.

Parameters

	Parameter	Count	Details
R	id	1	Requested ID for the contact (this is ignored but required by schema)
R	name	1	The name of the contact
	org	0-1	The organization of the contact
R	street	1-3	The street address of the contact (up to 3 can be provided)
R	city	1	The city of the contacts address
R	sp	1	The state of the contacts address
R	pc	1	The postcode for the contacts address
R	cc	1	The country code for the contact, in ISO2 format
R	voice	1	The telephone number for the contact, can optionally provide an additional attribute name ‘x’ that lists the contacts phone extension
	fax	0-1	The fax number for the contact
R	email	1	The email address of the contact
R	pw	1	The authorization code for the contact (not used, required by schema)
	clTRID	0-1	A client assigned transaction ID (returned by server in response)

Example Request

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <command>
    <create>
      <contact:create xmlns:contact="urn:ietf:params:xml:ns:contact-1.0">
        <contact:id>123456789</contact:id>
        <contact:postalInfo type="int">
          <contact:name>A Person</contact:name>
          <contact:org>An Organization</contact:org>
          <contact:addr>
            <contact:street>Building Name</contact:street>
            <contact:street>Street Name</contact:street>
            <contact:street/>
            <contact:city>City</contact:city>
            <contact:sp>State</contact:sp>
            <contact:pc>12345</contact:pc>
            <contact:cc>US</contact:cc>
          </contact:addr>
        </contact:postalInfo>
        <contact:voice x="123"> +1.555123456</contact:voice>
        <contact:fax/>
        <contact:email>a.person@example.org</contact:email>
        <contact:authInfo>
          <contact:pw>sampleAuthInfo</contact:pw>
        </contact:authInfo>
      </contact:create>
```

```
    </create>
    <clTRID>QWERTY-12345</clTRID>
  </command>
</epp>
```

Example Response

• It is important that the contact:id returned is saved, as this is the number required when using the Domain Create command.

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000">
      <msg>Command completed successfully</msg>
    </result>
    <resData>
      <contact:creData xmlns:contact="urn:ietf:params:xml:ns:contact-1.0">
        <contact:id>52408</contact:id>
        <contact:crDate>2013-06-11T15:51:10Z</contact:crDate>
      </contact:creData>
    </resData>
    <trID>
      <clTRID>QWERTY-12345</clTRID>
      <svTRID>64C2F05E-FFBD-4273-9C86-5A9964D13628</svTRID>
    </trID>
  </response>
</epp>
```

Info

Queries the server for details about the specified contact object.

• Please be aware that this does not query the registry, rather the local contact object stored by the server.

Parameters

	Parameter	Count	Details
R	id	1	The ID of the contact object to be queried
	clTRID	0-1	A client assigned transaction ID (returned by server in response)

Example Request

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <command>
    <info>
      <contact:info xmlns:contact="urn:ietf:params:xml:ns:contact-1.0">
        <contact:id>52408</contact:id>
      </contact:info>
    </info>
    <clTRID>QWERTY-12345</clTRID>
  </command>
</epp>
```

Example Response

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000">
      <msg>Command completed successfully</msg>
    </result>
    <resData>
      <contact:infData xmlns:contact="urn:ietf:params:xml:ns:contact-1.0">
        <contact:id>52408</contact:id>
        <contact:roid>52408-CON</contact:roid>
        <contact:status s="ok"/>
        <contact:postalInfo type="int">
          <contact:name>A Person</contact:name>
          <contact:org>An Organization</contact:org>
          <contact:addr>
            <contact:street>Building Name</contact:street>
            <contact:street>Street Name</contact:street>
            <contact:city>City</contact:city>
            <contact:sp>State</contact:sp>
            <contact:pc>12345</contact:pc>
            <contact:cc>US</contact:cc>
          </contact:addr>
        </contact:postalInfo>
        <contact:voice x="123">+1.555123456</contact:voice>
        <contact:email>a.person@example.org</contact:email>
        <contact:clID>DOMAINBOX</contact:clID>
        <contact:crID>DOMAINBOX</contact:crID>
        <contact:crDate>2013-06-11T15:51:00Z</contact:crDate>
      </contact:infData>
    </resData>
    <trID>
```

```
      <clTRID>QWERTY-12345</clTRID>
      <svTRID>DE58E1CA-774B-4C66-8A6A-594863E9C119</svTRID>
    </trID>
  </response>
</epp>
```

Delete

Deletes the specified contact object from the server and all associated registries (subject to registry policy).

• The contact can only be deleted if it is not being used on any domains.

• This can be checked by using the Contact Info command and looking at the contact:status returned:
  • “ok” means the contact can be deleted.
  • “linked” means the contact cannot be deleted as it is being used on one or more domains.

Parameters

	Parameter	Count	Details
R	id	1	The ID of the contact object to delete
	clTRID	0-1	A client assigned transaction ID (returned by server in response)

Example Request

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <command>
    <delete>
      <contact:delete xmlns:contact="urn:ietf:params:xml:ns:contact-1.0">
        <contact:id>52408</contact:id>
      </contact:delete>
    </delete>
    <clTRID>QWERTY-12345</clTRID>
  </command>
</epp>
```

Example Response

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000">
      <msg>Command completed successfully</msg>
    </result>
    <trID>
      <clTRID>QWERTY-12345</clTRID>
      <svTRID>553BA786-B7C7-44B4-B601-6E17610F035C</svTRID>
    </trID>
  </response>
</epp>
```

Update

Allows the specified contact object to be updated.

• Unlike the Domain Update command, there are no restrictions on when a contact can and cannot be updated.

• Nothing is added or removed from a contact object, the only update operation is to change existing items. Any elements omitted from the Update command will remain unchanged.

• Issuing an update command that would cause the required data to be blank (such as the country code) will return a policy violation error.

• This command does not permit the modification of the contact's pw parameter.

Parameters

	Parameter	Count	Details
R	id	1	The ID of the contact to update
	name	0-1	The name of the contact
	org	0-1	The organization of the contact
	street	0-3	The street address of the contact (up to 3 can be provided)
	city	0-1	The city of the contacts address
	sp	0-1	The state of the contacts address
	pc	0-1	The postcode for the contacts address
	cc	0-1	The country code for the contact, in ISO2 format
	voice	0-1	The telephone number for the contact, can optionally provide an additional attribute name 'x' that lists the contacts phone extension
	fax	0-1	The fax number for the contact
	email	0-1	The email address of the contact
	clTRID	0-1	A client assigned transaction ID (returned by server in response)

Example Request

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <command>
    <update>
      <contact:update xmlns:contact="urn:ietf:params:xml:ns:contact-1.0">
        <contact:id>52408</contact:id>
        <contact:chg>
          <contact:postalInfo type="int">
            <contact:org>New Organization</contact:org>
            <contact:addr>
              <contact:street>New Building</contact:street>
              <contact:street>New Street</contact:street>
              <contact:city>Different City</contact:city>
              <contact:pc>54321</contact:pc>
            </contact:addr>
          </contact:postalInfo>
        </contact:chg>
      </contact:update>
    </update>
    <clTRID>QWERTY-12345</clTRID>
  </command>
</epp>
```

Example Response

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000">
      <msg>Command completed successfully</msg>
    </result>
    <trID>
      <clTRID>QWERTY-12345</clTRID>
      <svTRID>28EF08C2-0C60-42A9-9051-633819477DF0</svTRID>
    </trID>
  </response>
</epp>
```

Unimplemented Commands

The following commands are not implemented as they are not required due to server policy.

- Check
- Transfer

Host Management

Create

Creates a subordinate host for the specified domain.

• In order for this command to succeed, the authorized user must be the owner of the domain name the host is being created for.

Parameters

	Parameter	Count	Details
R	name	1	The name of the new host object to create, this should include the domain name.
	addr	1-20	An IP address to link to the host, these can be in the form of IPv6 or IPv4 addresses, this is indicated by setting the 'ip' attribute to v4 or v6 (v4 is default if not included)
	clTRID	0-1	A client assigned transaction ID (returned by server in response)

Example Request

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <command>
    <create>
      <host:create xmlns:host="urn:ietf:params:xml:ns:host-1.0">
        <host:name>ns1.example.com</host:name>
        <host:addr ip="v4">192.1.1.1</host:addr>
        <host:addr ip="v4">192.1.1.2</host:addr>
        <host:addr ip="v4">192.1.1.3</host:addr>
        <host:addr ip="v4">192.1.1.4</host:addr>
      </host:create>
    </create>
    <clTRID>QWERTY-12345</clTRID>
  </command>
</epp>
```

Example Response

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000">
      <msg>Command completed successfully</msg>
    </result>
    <trID>
      <clTRID>QWERTY-12345</clTRID>
      <svTRID>B1960633-2CD2-4950-AD7B-1C717D8106D6</svTRID>
    </trID>
  </response>
</epp>
```

Info

Queries the specified host name, returned information about whether the host is in use, and the IP addresses assigned to the host.

• This command can only be used to query host names directly owned by the current authorized user. It cannot be used to obtain information about external host names.

Parameters

	Parameter	Count	Details
R	name	1	The host name to info
	clTRID	0-1	A client assigned transaction ID (returned by server in response)

Example Request

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <command>
    <info>
      <host:info xmlns:host="urn:ietf:params:xml:ns:host-1.0">
        <host:name>ns1.example.com</host:name>
      </host:info>
    </info>
    <clTRID>QWERTY-12345</clTRID>
  </command>
</epp>
```

Example Response

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000">
      <msg>Command completed successfully</msg>
    </result>
    <resData>
      <host:infData xmlns:host="urn:ietf:params:xml:ns:host-1.0">
        <host:name>ns1.example.com</host:name>
        <host:roid>12118-HST</host:roid>
        <host:status s="ok"/>
        <host:addr ip="v4">192.1.1.1</host:addr>
        <host:addr ip="v4">192.1.1.2</host:addr>
        <host:addr ip="v4">192.1.1.3</host:addr>
        <host:addr ip="v4">192.1.1.4</host:addr>
        <host:clID>396</host:clID>
        <host:crID>396</host:crID>
        <host:crDate>2013-06-11T16:19:00Z</host:crDate>
      </host:infData>
    </resData>
    <trID>
      <clTRID>QWERTY-12345</clTRID>
      <svTRID>49ECBB4A-F4B6-4303-A5BE-3001429172A8</svTRID>
    </trID>
  </response>
</epp>
```

Delete

Deletes the specified host from the domain.

• This can only be done if the host is not in use by any other domains.

• This can be checked by using the Host Info command and checking the host:status parameter returned:
  • 'ok' means the host is not in use and can be deleted
  • 'linked' means the host is in use on at least one domain and can't be deleted.

Parameters

	Parameter	Count	Details
R	name	1	The host name to delete
	clTRID	0-1	A client assigned transaction ID (returned by server in response)

Example Request

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <command>
    <delete>
      <host:delete xmlns:host="urn:ietf:params:xml:ns:host-1.0">
        <host:name>ns1.example.com</host:name>
      </host:delete>
    </delete>
    <clTRID>QWERTY-12345</clTRID>
  </command>
</epp>
```

Example Response

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000">
      <msg>Command completed successfully</msg>
    </result>
    <trID>
      <clTRID>QWERTY-12345</clTRID>
      <svTRID>D11647AA-9382-4582-91D6-D6D8FA0727AB</svTRID>
    </trID>
  </response>
</epp>
```

Update

Allows IP addresses to be added or removed from the specified host.

• While permitted in the scope of the EPP schema files, the server does not support host renaming using the host:chg parameter, this will simply be ignored if supplied.

• Please note, host status modifiers are not supported by the server and will return an error if provided.

Parameters

	Parameter	Count	Details
R	name	1	The host name to delete
	add	0-1	List of objects to add to this host
	rem	0-1	List of objects to remove from this host
	clTRID	0-1	A client assigned transaction ID (returned by server in response)

Example Request

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <command>
    <update>
      <host:update xmlns:host="urn:ietf:params:xml:ns:host-1.0">
        <host:name>ns1.example.com</host:name>
        <host:add>
          <host:addr ip="v4">192.1.1.5</host:addr>
        </host:add>
        <host:rem>
          <host:addr ip="v4">192.1.1.1</host:addr>
        </host:rem>
        <host:chg/>
      </host:update>
    </update>
    <clTRID>QWERTY-12345</clTRID>
  </command>
</epp>
```

Example Response

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000">
      <msg>Command completed successfully</msg>
    </result>
    <trID>
      <clTRID>QWERTY-12345</clTRID>
      <svTRID>D11647AA-9382-4582-91D6-D6D8FA0727AB</svTRID>
    </trID>
  </response>
</epp>
```

Unimplemented Commands

The following commands are not implemented as they are not required due to server policy.

- Check
- Transfer

Poll Queue Management

Poll Request

Obtains the oldest message from the poll queue, if there are any present.

• In order to receive poll queue messages they must first be enabled in the Administration Portal.

• This command only obtains TRANSFER messages from the message queue; other messages types should be obtained using the SOAP API MessageQueueRequest **command**

Parameters

	Parameter	Count	Details
	clTRID	0-1	A client assigned transaction ID (returned by server in response)

Example Request

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <command>
    <poll op="req"/>
    <clTRID>QWERTY-12345</clTRID>
  </command>
</epp>
```

Example Response - No Message on Poll Queue

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1300">
      <msg>Command completed successfully; no messages</msg>
    </result>
    <trID>
      <clTRID>QWERTY-12345</clTRID>
      <svTRID>54CD4BBF-0539-40D6-BF59-355FDF1D5106</svTRID>
    </trID>
  </response>
</epp>
```

Example Response - Transfer Notification on Poll Queue

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1301">
      <msg>Command completed successfully; ack to dequeue</msg>
    </result>
    <msgQ count="2" id="123456789">
      <qDate>2013-06-11T02:26:09.0Z</qDate>
      <msg>Transfer Requested.</msg>
    </msgQ>
    <resData>
      <domain:trnData xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
        <domain:name>example.com</domain:name>
        <domain:trStatus>pending</domain:trStatus>
        <domain:reID>396</domain:reID>
        <domain:reDate>2013-06-11T02:26:09.0Z</domain:reDate>
        <domain:acID>6993</domain:acID>
        <domain:acDate>2013-06-16T02:26:09.0Z</domain:acDate>
```

```
      </domain:trnData>
    </resData>
    <trID>
      <clTRID>QWERTY-12345</clTRID>
      <svTRID>E176688F-6760-4984-B1E8-57D42B7EE602</svTRID>
    </trID>
  </response>
</epp>
```

Poll Acknowledge

Removes the specified message ID from the poll queue.

• The message ID specified must be the head of the queue, otherwise the command will fail and the message will not be removed.

Parameters

	Parameter	Count	Details
R	msgID	1	Specified as an attribute in the poll parameter (see example below), indicates the ID of the message to remove from the queue
	clTRID	0-1	A client assigned transaction ID (returned by server in response)

Example Request

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <command>
    <poll op="ack" msgID="123456789"/>
    <clTRID>QWERTY-12345</clTRID>
  </command>
</epp>
```

Example Response

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000">
      <msg>Command completed successfully </msg>
    </result>
    <msgQ count="1" id="123456799"/>
    <trID>
      <clTRID>QWERTY-12345</clTRID>
      <svTRID>E50265CF-851A-40DF-9F14-1A849FE2DDCA</svTRID>
    </trID>
  </response>
</epp>
```

Appendix

EPP Server TLD Support

This is a list of all the TLDs currently supported by the server and the features supported for each TLD.

• Information supplied includes valid registration periods, add grace, renew grace and transfer grace periods.

• Third level indicates registrations can be made at the third + second level, e.g. example.example.tld, this does not include registry defined second levels (e.g. example.com.co).

Generic Top Level Domains (gTLDs)

Domain Extension	Max. Length	Min. Years	Max. Years	Add Grace Period (Days)	Renew Grace Period (Days)	Transfer Grace Period (Days)	DNSSEC Supported	IDN Supported	Third Levels Supported
.biz	63	1	10	5	5	5	✗	✗	✗
.com	63	1	10	5	5	5	✗	✓	✗
.info	63	1	10	5	5	5	✗	✗	✗
.mobi	63	1	10	5	5	5	✗	✗	✗
.name	63	1	10	5	5	5	✗	✗	✓
.net	63	1	10	5	5	5	✗	✓	✗
.org	63	1	10	5	5	5	✗	✗	✗
.xyz	63	1	10	5	5	5	✗	✗	✗

Country Code Top Level Domains (ccTLDs)

Domain Extension	Max. Length	Min. Years	Max. Years	Add Grace Period (Days)	Renew Grace Period (Days)	Transfer Grace Period (Days)	DNSSEC Supported	IDN Supported	Third Levels Supported
.co	63	1	5	5	5	5	✗	✓	✗
.me	63	1	10	2	0	0	✗	✗	✗