

## NASK EPP Extension

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### **Introduction**

This document aims at summary description of the EPP (Extensible Provisioning Protocol) extensions implemented by NASK. Exhaustive description of current version of the EPP can be found in the following IETF documents:

- Extensible Provisioning Protocol (draft-ietf-provreg-epp-07.txt)
- Extensible Provisioning Protocol Contact Mapping (draft-ietf-provreg-epp-contact-05.txt)
- Extensible Provisioning Protocol Domain Name Mapping (draft-ietf-provreg-epp-domain-05.txt)
- Extensible Provisioning Protocol Host Mapping (draft-ietf-provreg-epp-host-05.txt)

### **Domain Commands**

1. <domain:create>
  - a. optional <reason> element containing justification of registrant's right to the domain name,
  - b. optional <book> element meaning that the command is domain reservation request, when present in the request,
  - c. optional <taste> element meaning that the command is domain test request, when present in the request (Domain Name Tasting).

*Example <domain:create> with <book> command:*

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0
  epp-1.0.xsd">
  <command>
    <create>
      <domain:create
        xmlns:domain="urn:ietf:params:xml:ns:domain-1.0"
        xsi:schemaLocation="urn:ietf:params:xml:ns:domain-1.0
        domain-1.0.xsd">
        <domain:name>example.pl</domain:name>
        <domain:period unit="y">1</domain:period>
        <domain:ns>ns1.example.pl</domain:ns>
        <domain:ns>ns1.example2.pl</domain:ns>
        <domain:registrant>nsk1234</domain:registrant>
        <domain:contact type="tech">nsk5678</domain:contact>
        <domain:authInfo>
          <domain:pw>2fooBAR</domain:pw>
```

```

    </domain:authInfo>
  </domain:create>
</create>
<extension>
  <extdom:create
    xmlns:extdom="http://www.dns.pl/NASK-EPP/extdom-1.0"
    xsi:schemaLocation="http://www.dns.pl/NASK-EPP/extdom-1.0
    extdom-1.0.xsd">
    <extdom:reason>nice name</extdom:reason>
    <extdom:book/>
  </extdom:create>
</extension>
<clTRID>ABC-12345</clTRID>
</command>
</epp>

```

**Example <domain:create> with <taste> command:**

```

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0
  epp-1.0.xsd">
  <command>
    <create>
      <domain:create
        xmlns:domain="urn:ietf:params:xml:ns:domain-1.0"
        xsi:schemaLocation="urn:ietf:params:xml:ns:domain-1.0
        domain-1.0.xsd">
        <domain:name>example.pl</domain:name>
        <domain:ns>ns1.example.pl</domain:ns>
        <domain:ns>ns1.example2.pl</domain:ns>
        <domain:registrar>nsk1234</domain:registrar>
        <domain:contact type="tech">nsk5678</domain:contact>
        <domain:authInfo>
          <domain:pw>2fooBAR</domain:pw>
        </domain:authInfo>
      </domain:create>
    </create>
    <extension>
      <extdom:create
        xmlns:extdom="http://www.dns.pl/NASK-EPP/extdom-1.0"
        xsi:schemaLocation="http://www.dns.pl/NASK-EPP/extdom-1.0
        extdom-1.0.xsd">
        <extdom:reason>nice name</extdom:reason>
        <extdom:taste/>
      </extdom:create>
    </extension>
    <clTRID>ABC-12345</clTRID>
  </command>
</epp>

```

## 2. <domain:transfer>

- a. optional <resendConfirmationRequest> element meaning that the transfer request command is requesting resend the message sent to the domain registrant containing confirmation link.

**Example <domain:transfer> command:**

```

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0
  epp-1.0.xsd">
  <command>

```

```

<transfer op="request">
  <contact:transfer
    xmlns:contact="urn:ietf:params:xml:ns:contact-1.0"
    xsi:schemaLocation="urn:ietf:params:xml:ns:contact-1.0
      contact-1.0.xsd">
    <contact:id>sh8013</contact:id>
    <contact:authInfo>
      <contact:pw>2fooBAR</contact:pw>
    </contact:authInfo>
  </contact:transfer>
</transfer>
<extension>
  <extcon:transfer
    xmlns:extcon="http://www.dns.pl/NASK-EPP/extcon-1.0"
    xsi:schemaLocation="http://www.dns.pl/NASK-EPP/extcon-1.0
      extcon-1.0.xsd">
    <extcon:resendConfirmationRequest/>
  </extcon:transfer>
</extension>
<clTRID>ABC-12345</clTRID>
</command>
</epp>

```

### 3. <domain:renew>

- a. optional <reactivate> element meaning that domain in a BLOCKED state can renew.

*Example <domain:renew> command:*

```

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0
    epp-1.0.xsd">
  <command>
    <renew>
      <domain:renew
        xmlns:domain="urn:ietf:params:xml:ns:domain-1.0"
        xsi:schemaLocation="urn:ietf:params:xml:ns:domain-1.0
          domain-1.0.xsd">
        <domain:name>example.pl</domain:name>
        <domain:curExpDate>2009-10-26</domain:curExpDate>
        <domain:period unit="y">1</domain:period>
      </domain:renew>
    </renew>
  <extension>
    <extdom:renew
      xmlns:extdom="http://www.dns.pl/NASK-EPP/extdom-1.0"
      xsi:schemaLocation="http://www.dns.pl/NASK-EPP/extdom-1.0
        extdom-1.0.xsd">
      <extdom:reactivate/>
    </extdom:renew>
  </extension>
  <clTRID>ABC-12345</clTRID>
</command>
</epp>

```

## Contact Commands

### 1. <contact:create>

- a. <individual> element containing information if the contact represents private person,

- b. `<consentForPublishing>` element containing consent/ban for publishing the contact personal information in WhoIs.

*Example <contact:create> command:*

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0
  epp-1.0.xsd">
  <command>
    <create>
      <contact:create
        xmlns:contact="urn:ietf:params:xml:ns:contact-1.0"
        xsi:schemaLocation="urn:ietf:params:xml:ns:contact-1.0
        contact-1.0.xsd">
        <contact:id>sh8013</contact:id>
        <contact:postalInfo type="loc">
          <contact:name>John Doe</contact:name>
          <contact:org>ACME</contact:org>
          <contact:addr>
            <contact:street>123 Example Dr.</contact:street>
            <contact:street>Suite 100</contact:street>
            <contact:city>Dulles</contact:city>
            <contact:sp>VA</contact:sp>
            <contact:pc>20166-6503</contact:pc>
            <contact:cc>US</contact:cc>
          </contact:addr>
        </contact:postalInfo>
        <contact:voice x="1234">+1.7035555555</contact:voice>
        <contact:fax>+1.7035555556</contact:fax>
        <contact:email>jdoe@example.tld</contact:email>
        <contact:authInfo>
          <contact:pw>secret</contact:pw>
        </contact:authInfo>
      </contact:create>
    </create>
    <extension>
      <extcon:create
        xmlns:extcon="http://www.dns.pl/NASK-EPP/extcon-1.0"
        xsi:schemaLocation="http://www.dns.pl/NASK-EPP/extcon-1.0
        extcon-1.0.xsd">
        <extcon:individual>1</extcon:individual>
        <extcon:consentForPublishing>1</extcon:consentForPublishing>
      </extcon:create>
    </extension>
    <clTRID>ABC-12345</clTRID>
  </command>
</epp>
```

## 2. `<contact:update>`

- a. optional `<consentForPublishing>` element containing consent/ban for publishing the contact personal information in WhoIs.

*Example <contact:update> command:*

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0
  epp-1.0.xsd">
  <command>
    <update>
      <contact:update
```

```

xmlns:contact="urn:ietf:params:xml:ns:contact-1.0"
xsi:schemaLocation="urn:ietf:params:xml:ns:contact-1.0
contact-1.0.xsd">
  <contact:id>nsk0001</contact:id>
  <contact:add>
    <contact:status s="clientDeleteProhibited"/>
  </contact:add>
  <contact:chg>
    <contact:postalInfo type="int">
      <contact:org/>
      <contact:addr>
        <contact:street>124 Example Dr.</contact:street>
        <contact:street>Suite 200</contact:street>
        <contact:city>Dulles</contact:city>
        <contact:sp>VA</contact:sp>
        <contact:pc>20166-6503</contact:pc>
        <contact:cc>US</contact:cc>
      </contact:addr>
    </contact:postalInfo>
    <contact:voice>+1.7034444444</contact:voice>
    <contact:fax/>
  </contact:chg>
</contact:update>
</update>
<extension>
  <extcon:update
    xmlns:extcon="http://www.dns.pl/NASK-EPP/extcon-1.0"
    xsi:schemaLocation="http://www.dns.pl/NASK-EPP/extcon-1.0
    extcon-1.0.xsd">
    <extcon:consentForPublishing>1</extcon:consentForPublishing>
  </extcon:update>
</extension>
<clTRID>ABC-12345</clTRID>
</command>
</epp>

```

### 3. <contact:info>

- a. optional *roid* attribute in <authInfo> element, containing the Repository Object Identifier assigned to the domain object, when the given authInfo is associated with a domain object, for which contact identified by <contact:id> is a registrant, and not the contact object itself.

#### **Example <contact:info> command:**

```

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0
  epp-1.0.xsd">
  <command>
    <info>
      <contact:info
        xmlns:contact="urn:ietf:params:xml:ns:contact-1.0"
        xsi:schemaLocation="urn:ietf:params:xml:ns:contact-1.0
        contact-1.0.xsd">
        <contact:id>666666</contact:id>
      </contact:info>
    </info>
    <extension>
      <extcon:info
        xmlns:extcon="http://www.dns.pl/NASK-EPP/extcon-1.0"

```

```

        xsi:schemaLocation="http://www.dns.pl/NASK-EPP/extcon-1.0
        extcon-1.0.xsd">
        <extcon:authInfo>
            <extcon:pw roid="1234-NASK">2fooBAR</extcon:pw>
        </extcon:authInfo>
    </extcon:info>
</extension>
<clTRID>ABC-12345</clTRID>
</command>
</epp>

```

4. <contact:infData> (response to the <contact:info> command)
  - a. <individual> element containing information if the contact represents private person,
  - b. <consentForPublishing> element containing consent/ban for publishing the contact personal information in WhoIs.

*Example <contact:info> response:*

```

<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0
    epp-1.0.xsd">
    <response>
        <result code="1000">
            <msg lang="en">Command completed successfully</msg>
        </result>
        <msgQ count="1" id="2649" />
        <resData>
            <contact:infData
                xmlns:contact="urn:ietf:params:xml:ns:contact-1.0"
                xsi:schemaLocation="urn:ietf:params:xml:ns:contact-1.0
                contact-1.0.xsd">
                <contact:id>nsk002</contact:id>
                <contact:roid>27200-NASK</contact:roid>
                <contact:status s="ok" lang="en" />
                <contact:postalInfo type="loc">
                    <contact:name>John Doe</contact:name>
                    <contact:org>Organizacja</contact:org>
                    <contact:addr>
                        <contact:street>Street 23/22</contact:street>
                        <contact:street />
                        <contact:street />
                        <contact:city>City</contact:city>
                        <contact:pc>01-012</contact:pc>
                        <contact:cc>PL</contact:cc>
                    </contact:addr>
                </contact:postalInfo>
                <contact:voice>+48.1234567890</contact:voice>
                <contact:fax>+48.1234567890</contact:fax>
                <contact:email>em@mail.com</contact:email>
                <contact:clID>nask</contact:clID>
                <contact:crID>nask</contact:crID>
                <contact:crDate>2006-11-01T17:59:48.0Z</contact:crDate>
                <contact:authInfo>
                    <contact:pw>0118595200</contact:pw>
                </contact:authInfo>
            </contact:infData>
        </resData>
        <extension>
            <extcon:infData
                xmlns:extcon="http://www.dns.pl/NASK-EPP/extcon-1.0"

```

```

        xsi:schemaLocation="http://www.dns.pl/NASK-EPP/extcon-1.0
        extcon-1.0.xsd">
        <extcon:individual>true</extcon:individual>
        <extcon:consentForPublishing>false</extcon:consentForPublishing>
        </extcon:infData>
    </extension>
    <trID>
        <clTRID>ABC-12345</clTRID>
        <svTRID>JA7422406634</svTRID>
    </trID>
</response>
</epp>

```

## 5. <contact:transfer>

- a. optional *roid* attribute in <authInfo> element, containing the Repository Object IDentifier assigned to the domain object, when the given authInfo is associated with a domain object, for which contact identified by <contact:id> is a registrant, and not the contact object itself,
- b. optional <resendConfirmationRequest> element meaning that the transfer request command is requesting resend the message sent to this contact's email address containing confirmation link.

### *Example <contact:transfer> command:*

```

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0
    epp-1.0.xsd">
    <command>
        <transfer op="request">
            <contact:transfer
                xmlns:contact="urn:ietf:params:xml:ns:contact-1.0"
                xsi:schemaLocation="urn:ietf:params:xml:ns:contact-1.0
                contact-1.0.xsd">
                <contact:id>sh8013</contact:id>
                <contact:authInfo>
                    <contact:pw roid="1234-NASK">2fooBAR</contact:pw>
                </contact:authInfo>
            </contact:transfer>
        </transfer>
        <extension>
            <extcon:transfer
                xmlns:extcon="http://www.dns.pl/NASK-EPP/extcon-1.0"
                xsi:schemaLocation="http://www.dns.pl/NASK-EPP/extcon-1.0
                extcon-1.0.xsd">
                <extcon:resendConfirmationRequest/>
            </extcon:transfer>
        </extension>
        <clTRID>ABC-12345</clTRID>
    </command>
</epp>

```

## **Futures**

Future guarantees possibility of registration of existing domain name whenever a domain lifecycle is ended (i.e. domain is to be removed). In such a situation domain is automatically reserved for future sponsoring client and registrant. Futures are managed using subset of commands

specified in *Extensible Provisioning Protocol* (draft-ietf-provreg-epp-07.txt), as described below.

1. `<future:check>`

- a. one or more `<future:name>` elements containing the future names.

*Example <future:check> command:*

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0
  epp-1.0.xsd">
  <command>
    <check>
      <future:check
        xmlns:future="http://www.dns.pl/NASK-EPP/future-1.0"
        xsi:schemaLocation="http://www.dns.pl/NASK-EPP/future-1.0
        future-1.0.xsd">
        <future:name>przyklad.pl</future:name>
        <future:name>przyklad1.pl</future:name>
        <future:name>przyklad2.pl</future:name>
      </future:check>
    </check>
    <clTRID>ABC-12345</clTRID>
  </command>
</epp>
```

2. `<future:chkData>` (response to the `<future:check>` command)

For every `<future:name>` element provided in request the response contains corresponding `<future:cd>` element containing the following elements:

- a. `<future:name>` element containing the future name having `avail` attribute informing, whether or not it is possible for logged in client to create the future using `<future:create>` command; value *1* or *true* indicates that it is possible to create the future, value *0* or *false* indicates that it is no possible to create the future,
- b. optional `<future:reason>` element present only when value of `avail` attribute is *0* or *false* containing code of reason that describes why creation of the future is not possible.

*Example <future:check> response:*

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0
  epp-1.0.xsd">
  <response>
    <result code="1000">
      <msg lang="en">Command completed successfully</msg>
    </result>
    <msgQ count="1" id="2649" />
    <resData>
      <future:chkData
        xmlns:future="http://www.dns.pl/NASK-EPP/future-1.0"
        xsi:schemaLocation="http://www.dns.pl/NASK-EPP/future-1.0
        future-1.0.xsd">
        <future:cd>
```

```

        <future:name avail="false">przyklad.pl</future:name>
        <future:reason>4002</future:reason>
    </future:cd>
    <future:cd>
        <future:name avail="true">przyklad1.pl</future:name>
    </future:cd>
    <future:cd>
        <future:name avail="false">przyklad2.pl</future:name>
        <future:reason>4012</future:reason>
    </future:cd>
    </future:chkData>
</resData>
<trID>
    <clTRID>ABC-12345</clTRID>
    <svTRID>JA5241324046</svTRID>
</trID>
</response>
</epp>

```

### 3. <future:create>

- a. element <future:name> element containing the future name,
- b. element <future:period> element containing period of time to create future for, that contains unit attribute with value of *y* or *m* describing units (year or month respectively) period is expressed in,
- c. <future:registrant> element containing the future registrant identifier,
- d. <future:authInfo> element containing the future authorization information.

#### *Example <future:create> command:*

```

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0
    epp-1.0.xsd">
    <command>
        <create>
            <future:create
                xmlns:future="http://www.dns.pl/NASK-EPP/future-1.0"
                xsi:schemaLocation="http://www.dns.pl/NASK-EPP/future-1.0
                future-1.0.xsd">
                <future:name>przyklad.pl</future:name>
                <future:period unit="y">3</future:period>
                <future:registrant>nsk001</future:registrant>
                <future:authInfo>
                    <future:pw>3fooBAR</future:pw>
                </future:authInfo>
            </future:create>
        </create>
        <clTRID>ABC-12345</clTRID>
    </command>
</epp>

```

### 4. <future:creData> (response to the <future:create> command)

- a. <future:name> element containing the future name,
- b. <future:crDate> element containing the date of the future creation,

- c. `<future:exDate>` element containing the date of the future expiration.

**Example `<future:create>` response:**

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0 epp-1.0.xsd">
  <response>
    <result code="1000">
      <msg lang="en">Command completed successfully</msg>
    </result>
    <msgQ count="1" id="2649" />
    <resData>
      <future:creData
        xmlns:future="http://www.dns.pl/NASK-EPP/future-1.0"
        xsi:schemaLocation="http://www.dns.pl/NASK-EPP/future-1.0
          future-1.0.xsd">
        <future:name>przyklad.pl</future:name>
        <future:crDate>2007-11-02T09:01:24.382Z</future:crDate>
      </future:creData>
    </resData>
    <trID>
      <clTRID>ABC-12345</clTRID>
      <svTRID>JA1012361471</svTRID>
    </trID>
  </response>
</epp>
```

5. `<future:info>`

- a. `<future:name>` element containing the future name,  
 b. optional `<future:authInfo>` element containing the future authorization information  
 i. optional *roid* attribute in `<authInfo>` element, containing the Repository Object Identifier assigned to the registrant contact object, when the given `authInfo` is associated with a registrant contact object, and not the future object itself.

**Example `<future:info>` command:**

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0
    epp-1.0.xsd">
  <command>
    <info>
      <future:info
        xmlns:future="http://www.dns.pl/NASK-EPP/future-1.0"
        xsi:schemaLocation="http://www.dns.pl/NASK-EPP/future-1.0
          future-1.0.xsd">
        <future:name>przyklad.pl</future:name>
        <future:authInfo>
          <future:pw>3fooBAR</future:pw>
        </future:authInfo>
      </future:info>
    </info>
    <clTRID>ABC-12345</clTRID>
  </command>
</epp>
```

6. `<future:infData>` (response to the `<future:info>` command)

- a. <future:name> element containing the future name,
- b. <future:roid> element containing future *Repository Object Identifier*,
- c. <future:registrant> element containing the future registrant identifier,
- d. <future:clID> element containing identifier of the future sponsoring client,
- e. <future:crID> element containing identifier of client who created the future,
- f. <future:crDate> element containing the date of the future creation,
- g. <future:exDate> element containing the date of the future expiration,
- h. optional <future:upID> element containing identifier of the client who made last update to the future (element is not present if the future has never been updated),
- i. optional <future:upDate> element containing the date of last update to the future (element is not present if the future has never been updated),
- j. optional <future:trDate> element containing the date of last transfer of the future (element is not present if the future has never been transferred),
- k. <future:authInfo> element containing the future authorization information,
- l. <future:period> element containing length of current maintenance period of the future.

**Example <future:info> response:**

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0
  epp-1.0.xsd">
  <response>
    <result code="1000">
      <msg lang="en">Command completed successfully</msg>
    </result>
    <msgQ count="1" id="2649" />
    <resData>
      <future:infData
        xmlns:future="http://www.dns.pl/NASK-EPP/future-1.0"
        xsi:schemaLocation="http://www.dns.pl/NASK-EPP/future-1.0
        future-1.0.xsd">
        <future:name>przyklad.pl</future:name>
        <future:roid>311-NASK</future:roid>
        <future:registrant>000000003</future:registrant>
        <future:clID>nask</future:clID>
        <future:crID>nask</future:crID>
        <future:crDate>2007-11-02T09:01:24.0Z</future:crDate>
        <future:exDate>2010-11-02T09:01:24.0Z</future:exDate>
        <future:authInfo>
          <future:pw>3fooBAR</future:pw>
        </future:authInfo>
        </future:infData>
      </resData>
```

```

    <trID>
      <clTRID>ABC-12345</clTRID>
      <svTRID>JA7576662347</svTRID>
    </trID>
  </response>
</epp>

```

## 7. <future:update>

- a. <future:name> element containing the future name,
- b. <future:chg> element containing the following elements:
  - i. optional <future:registrant> element containing the future registrant identifier,
  - ii. optional <future:authInfo> element containing the future authorization information.

### Example <future:update> command:

```

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0
  epp-1.0.xsd">
  <command>
    <update>
      <future:update>
        xmlns:future="http://www.dns.pl/NASK-EPP/future-1.0"
        xsi:schemaLocation="http://www.dns.pl/NASK-EPP/future-1.0
        future-1.0.xsd">
          <future:name>przyklad.pl</future:name>
          <future:chg>
            <future:registrant>nsk001</future:registrant>
            <future:authInfo>
              <future:pw>4fooBAR</future:pw>
            </future:authInfo>
          </future:chg>
        </future:update>
      </update>
      <clTRID>ABC-12345</clTRID>
    </command>
  </epp>

```

## 8. <future:transfer>

- a. op attribute with one of values: *request, query, approve, reject, cancel,*
- b. <future:name> element containing the future name,
- c. optional <future:period> element, which is not supported,
- d. <future:authInfo> element containing future authorization information
  - i. optional *roid* attribute in <authInfo> element, containing the Repository Object IDentifier assigned to the registrant contact object, when the given authInfo is associated with a registrant contact object, and not the future object itself,
- e. optional <extfut:resendConfirmationRequest> element meaning that the transfer request command is requesting resend the message sent to the domain registrant containing confirmation link.

### Example <future:transfer> command:

```

<?xml version="1.0" encoding="UTF-8" standalone="no"?>

```

```

<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0
  epp-1.0.xsd">
  <command>
    <transfer op="query">
      <future:transfer
        xmlns:future="http://www.dns.pl/NASK-EPP/future-1.0"
        xsi:schemaLocation="http://www.dns.pl/NASK-EPP/future-1.0
        future-1.0.xsd">
        <future:name>przyklad.pl</future:name>
        <future:authInfo>
          <future:pw>3fooBAR</future:pw>
        </future:authInfo>
        </future:transfer>
      </transfer>
      <clTRID>ABC-12345</clTRID>
    </command>
  </epp>

```

9. <future:trnData> (response to the <future:transfer> command)
- <future:name> element containing the future name,
  - <future:trStatus> element containing the state of the most recent transfer request with one of values: *clientApproved*, *clientCancelled*, *pending*, *serverApproved*, *serverCancelled*,
  - <future:reID> element containing the identifier of client requesting transfer,
  - <future:reDate> element containing the date of issuing the transfer request,
  - <future:acID> element containing the identifier of the future registrant contact that should act upon the transfer request,
  - <future:acDate> element containing the date and time of a required or completed response. For a *pending* request, the value identifies the date and time by which a response is required before an automated response action will be taken by the server. For all other status types, the value identifies the date and time when the request was completed.

**Example <future:transfer> response:**

```

<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0
  epp-1.0.xsd">
  <response>
    <result code="1001">
      <msg lang="en">Command completed successfully; action
      pending</msg>
    </result>
    <msgQ count="1" id="2649" />
    <resData>
      <future:trnData
        xmlns:future="http://www.dns.pl/NASK-EPP/future-1.0"
        xsi:schemaLocation="http://www.dns.pl/NASK-EPP/future-1.0
        future-1.0.xsd">
        <future:name>przyklad.pl</future:name>
        <future:trStatus>pending</future:trStatus>
        <future:reID>nask</future:reID>

```

```
<future:reDate>2007-11-02T09:31:11.800Z</future:reDate>
<future:acID>nsk0001</future:acID>
<future:acDate>2007-12-02T09:31:11.800Z</future:acDate>
</future:trnData>
</resData>
<trID>
  <clTRID>ABC-12345</clTRID>
  <svTRID>JA7504315162</svTRID>
</trID>
</response>
</epp>
```

## Reports

Report command retrieves list of objects that meets request conditions and belongs to the user.

### 1. <extreport:report>

a. one of the following elements specifying report type:

- i. <extreport:domain> – list of user domains in specified state and with expiration date earlier than specified,
- ii. <extreport:contact> – list of user contacts or one contact with specified id,
- iii. <extreport:host> – list of user hosts or one host with specified name,
- iv. <extreport:future> – list of user futures with expiration date earlier than specified,
- v. <extreport:payment> – list of user payments with specified account type,
- vi. <extreport:paymentFunds> – total funds (initial, spend, current) with specified account type,

b. optional <extreport:offset> element specifying response data offset,

c. optional <extreport:limit> element specifying amount of data in response.

### 2. <extreport:reportData> (response to the <extreport:report> command)

a. one of the following elements containing result object list, depending on respective report type:

- i. <extreport:domDataRsp> ,
- ii. <extreport:conDataRsp> ,
- iii. <extreport:hosDataRsp> ,
- iv. <extreport:futDataRsp> ,
- v. <extreport:paymentDataRsp> ,
- vi. <extreport:paymentFundsDataRsp> ,

b. <extreport:offset> element containing returned objects offset in respect of all objects in system that meets request conditions,

c. <extreport:limit> element containing maximal amount of objects in one response,

d. <extreport:size> element containing amount of objects in system that meets request conditions.

### 3. <extreport:domain>

- a. optional <extreport:state> element containing domain state: *STATE\_REGISTERED*, *STATE\_EXPIRED*, *STATE\_BLOCKED*, *STATE\_RESERVED*, *STATE\_BOOK\_BLOCKED*, *STATE\_DELETE\_BLOCKED*, *STATE\_TASTED*, *STATE\_TASTED\_BLOCKED* (default is *STATE\_REGISTERED*),
- b. optional <extreport:exDate> element containing domain expiration date. If not set all objects are returned.
- c. optional <extreport:statuses> element containing:
  - i. zero or more <extreport:status> containing domain's statuses
  - ii. optional element statusesIn deciding has domain writing statuses (default is true)

**Example <extreport:domain> command:**

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0
  epp-1.0.xsd">
  <extension>
    <extreport:report
      xmlns:extreport="urn:ietf:params:xml:ns:extreport-1.0"
      xsi:schemaLocation="urn:ietf:params:xml:ns:extreport-1.0
      extreport-1.0.xsd">
      <extreport:domain>
        <extreport:state>STATE_REGISTERED</extreport:state>
        <extreport:exDate>2007-05-07T11:23:00.0Z</extreport:exDate>
        <extreport:statuses statusesIn="true">
          <extreport:status>serverHold</extreport:status>
        </extreport:statuses>
      </extreport:domain>
      <extreport:offset>0</extreport:offset>
      <extreport:limit>50</extreport:limit>
    </extreport:report>
  </extension>
</epp>
```

**4. <extreport:domDataRsp>**

- a. zero or more <extreport:domData> elements
  - i. <extreport:name> element containing domain name,
  - ii. <extreport:roid> element containing domain *Repository Object Identifier*,
  - iii. <extreport:exDate> element containing domain expiration date.
  - iv. <extreport:statuses> element containing:
    1. zero or more <extreport:status> containing domain's statuses

**Example <extreport:domain> response:**

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0
  epp-1.0.xsd">
  <response>
    <result code="1000">
      <msg lang="en">Command completed successfully</msg>
    </result>
  </response>
</epp>
```

```

</result>
<msgQ count="12" id="469432"/>
<extension>
  <extreport:reportData
    xmlns:extreport="urn:ietf:params:xml:ns:extreport-1.0"
    xsi:schemaLocation="urn:ietf:params:xml:ns:extreport-1.0
      extreport-1.0.xsd">
    <extreport:domDataRsp>
      <extreport:domData>
        <extreport:name>example1.pl</extreport:name>
        <extreport:roid>1234-NASK</extreport:roid>
        <extreport:exDate>2007-03-
18T23:00:00.0Z</extreport:exDate>
        <extreport:statuses>
          <extreport:status>serverHold</extreport:status>
        </extreport:statuses>
      </extreport:domData>
      <extreport:domData>
        <extreport:name>example2.pl</extreport:name>
        <extreport:roid>1235-NASK</extreport:roid>
        <extreport:exDate>2007-04-
19T15:25:31.0Z</extreport:exDate>
        <extreport:statuses>
          <extreport:status>serverHold</extreport:status>
        </extreport:statuses>
      </extreport:domData>
    </extreport:domDataRsp>
    <extreport:offset>0</extreport:offset>
    <extreport:limit>50</extreport:limit>
    <extreport:size>2</extreport:size>
  </extreport:reportData>
</extension>
<trID>
  <svTRID>RE2344577834</svTRID>
</trID>
</response>
</epp>

```

## 5. <extreport:contact>

- a. optional <extreport:conId> element containing contact id; if not present in the request all user contacts are returned.

### *Example <extreport:contact> command:*

```

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0
    epp-1.0.xsd">
  <extension>
    <extreport:report
      xmlns:extreport="urn:ietf:params:xml:ns:extreport-1.0"
      xsi:schemaLocation="urn:ietf:params:xml:ns:extreport-1.0
        extreport-1.0.xsd">
      <extreport:contact>
        <extreport:conId>k13</extreport:conId>
      </extreport:contact>
      <extreport:offset>0</extreport:offset>
      <extreport:limit>50</extreport:limit>
    </extreport:report>
  </extension>
</epp>

```

## 6. <extreport:conDataRsp>

- a. zero or more <extreport:conData> elements
  - i. <extreport:conId> element containing contact id,
  - ii. <extreport:roid> element containing contact *Repository Object Identifier*.

**Example <extreport:contact> response:**

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0
  epp-1.0.xsd">
  <response>
    <result code="1000">
      <msg lang="en">Command completed successfully</msg>
    </result>
    <msgQ count="12" id="469432"/>
    <extension>
      <extreport:reportData
        xmlns:extreport="urn:ietf:params:xml:ns:extreport-1.0"
        xsi:schemaLocation="urn:ietf:params:xml:ns:extreport-1.0
        extreport-1.0.xsd">
        <extreport:conDataRsp>
          <extreport:conData>
            <extreport:conId>k13</extreport:conId>
            <extreport:roid>654321-NASK</extreport:roid>
          </extreport:conData>
        </extreport:conDataRsp>
        <extreport:offset>0</extreport:offset>
        <extreport:limit>50</extreport:limit>
        <extreport:size>1</extreport:size>
      </extreport:reportData>
    </extension>
    <trID>
      <svTRID>RE3248667845</svTRID>
    </trID>
  </response>
</epp>
```

**7. <extreport:host>**

- a. optional <extreport:name> element containing host name; if not present in the request all user hosts are returned.

**Example <extreport:host> command:**

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0
  epp-1.0.xsd">
  <extension>
    <extreport:report
      xmlns:extreport="urn:ietf:params:xml:ns:extreport-1.0"
      xsi:schemaLocation="urn:ietf:params:xml:ns:extreport-1.0
      extreport-1.0.xsd">
      <extreport:host>
        <extreport:name>ns1.temp.pl</extreport:name>
      </extreport:host>
      <extreport:offset>0</extreport:offset>
      <extreport:limit>50</extreport:limit>
    </extreport:report>
  </extension>
</epp>
```

## 8. &lt;extreport:hosDataRsp&gt;

## a. zero or more &lt;extreport:hosData&gt; elements

- i. <extreport:name> element containing host name,
- ii. <extreport:roid> element containing host *Repository Object Identifier*.

**Example <extreport:host> response:**

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0
  epp-1.0.xsd">
  <response>
    <result code="1000">
      <msg lang="en">Command completed successfully</msg>
    </result>
    <msgQ count="12" id="469432"/>
    <extension>
      <extreport:reportData
        xmlns:extreport="urn:ietf:params:xml:ns:extreport-1.0"
        xsi:schemaLocation="urn:ietf:params:xml:ns:extreport-1.0
        extreport-1.0.xsd">
        <extreport:conDataRsp>
          <extreport:conData>
            <extreport:name>ns1.temp.pl</extreport:name>
            <extreport:roid>632381-NASK</extreport:roid>
          </extreport:conData>
        </extreport:conDataRsp>
        <extreport:offset>0</extreport:offset>
        <extreport:limit>50</extreport:limit>
        <extreport:size>1</extreport:size>
      </extreport:reportData>
    </extension>
    <trID>
      <svTRID>RE4578967890</svTRID>
    </trID>
  </response>
</epp>
```

## 9. &lt;extreport:future&gt;

- a. optional <extreport:exDate> element containing future expiration date; if not present in the request all user futures are returned.

**Example <extreport:future> command:**

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0
  epp-1.0.xsd">
  <extension>
    <extreport:report
      xmlns:extreport="urn:ietf:params:xml:ns:extreport-1.0"
      xsi:schemaLocation="urn:ietf:params:xml:ns:extreport-1.0
      extreport-1.0.xsd">
      <extreport:future>
        <extreport:exDate>2007-04-23T15:22:34.0Z</extreport:exDate>
      </extreport:future>
      <extreport:offset>0</extreport:offset>
      <extreport:limit>50</extreport:limit>
    </extreport:report>
```

```

    </extension>
  </epp>

```

10. <extreport:futDataRsp>

a. zero or more <extreport:futData> elements

- i. <extreport:name> element containing future name,
- ii. <extreport:roid> element containing future *Repository Object Identifier*,
- iii. <extreport:exDate> element containing future expiration date.

*Example <extreport:future> response:*

```

<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0
  epp-1.0.xsd">
  <response>
    <result code="1000">
      <msg lang="en">Command completed successfully</msg>
    </result>
    <msgQ count="12" id="469432"/>
    <extension>
      <extreport:reportData
        xmlns:extreport="urn:ietf:params:xml:ns:extreport-1.0"
        xsi:schemaLocation="urn:ietf:params:xml:ns:extreport-1.0
        extreport-1.0.xsd">
        <extreport:futDataRsp>
          <extreport:futData>
            <extreport:name>ns1.temp.pl</extreport:name>
            <extreport:roid>632381-NASK</extreport:roid>
            <extreport:exDate>2007-04-
19T15:25:31.0Z</extreport:exDate>
          </extreport:futData>
        </extreport:futDataRsp>
        <extreport:offset>0</extreport:offset>
        <extreport:limit>50</extreport:limit>
        <extreport:size>1</extreport:size>
      </extreport:reportData>
    </extension>
    <trID>
      <svTRID>RE2321966675</svTRID>
    </trID>
  </response>
</epp>

```

11. <extreport:payment>

a. required <extreport:accountType> element containing payment account type.

*Example <extreport:payment> command:*

```

<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0 epp-
1.0.xsd">
  <extension>
    <extreport:report
      xmlns:extreport="urn:ietf:params:xml:ns:extreport-1.0"
      xsi:schemaLocation="urn:ietf:params:xml:ns:extreport-1.0
      extreport-1.0.xsd">
      <extreport:prepaid>

```

```

    <extreport:payment>
      <extreport:accountType>domain</extreport:accountType>
    </extreport:payment>
  </extreport:prepaid>
  <extreport:offset>0</extreport:offset>
  <extreport:limit>50</extreport:limit>
</extreport:report>
</extension>
</epp>

```

## 12. <extreport:paymentDataRsp>

### a. zero or more <extreport:paymentData> elements

- i. <extreport:roid> element containing payment *Repository Object Identifier*
- ii. <extreport:crDate> element containing payment create date,
- iii. <extreport:grossValue> element containing payment gross value,
- iv. <extreport:vatPercent> element containing payment VAT percent,
- v. <extreport:vatValue> element containing payment VAT value,
- vi. <extreport:initialFunds> element containing payment initial funds,
- vii. <extreport:currentFunds> element containing payment current funds.

### *Example <extreport:payment> response:*

```

<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0 epp-1.0.xsd">
  <response>
    <result code="1000">
      <msg lang="pl">Komenda wykonana poprawnie</msg>
    </result>
    <extension>
      <extreport:reportData
xsi:schemaLocation="urn:ietf:params:xml:ns:extreport-1.0 extreport-1.0.xsd">
        <extreport:paymentDataRsp>
          <extreport:paymentData>
            <extreport:roid>14-NASK</extreport:roid>
            <extreport:crDate>2009-06-
17T08:08:40.0Z</extreport:crDate>
            <extreport:grossValue>1220.0</extreport:grossValue>
            <extreport:vatPercent>22</extreport:vatPercent>
            <extreport:vatValue>220.0</extreport:vatValue>
            <extreport:initialFunds>1000.0</extreport:initialFunds>
            <extreport:currentFunds>1000.0</extreport:currentFunds>
          </extreport:paymentData>
        </extreport:paymentDataRsp>
        <extreport:offset>0</extreport:offset>
        <extreport:limit>50</extreport:limit>
        <extreport:size>1</extreport:size>
      </extreport:reportData>
    </extension>
  <trID>
    <svTRID>RE7632747544</svTRID>
  </trID>
</response>
</epp>

```

13. <extreport:paymentFunds>  
 a. required <extreport:accountType> element containing total funds (initial, spend, current) account type.

*Example <extreport:paymentFunds> command:*

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0 epp-1.0.xsd">
  <extension>
  <extreport:report
    xmlns:extreport="urn:ietf:params:xml:ns:extreport-1.0"
    xsi:schemaLocation="urn:ietf:params:xml:ns:extreport-1.0
    extreport-1.0.xsd">
    <extreport:prepaid>
      <extreport:paymentFunds>
        <extreport:accountType>domain</extreport:accountType>
      </extreport:paymentFunds>
    </extreport:prepaid>
    <extreport:offset>0</extreport:offset>
    <extreport:limit>50</extreport:limit>
  </extreport:report>
  </extension>
</epp>
```

14. <extreport:paymentDataRsp>  
 a. one <extreport:paymentFundsData> element  
 i. <extreport:currentBalance> element containing total current funds.

*Example <extreport:paymentFunds> response:*

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0 epp-1.0.xsd">
  <response>
    <result code="1000">
      <msg lang="pl">Komenda wykonana poprawnie</msg>
    </result>
    <extension>
      <extreport:reportData
        xsi:schemaLocation="urn:ietf:params:xml:ns:extreport-1.0 extreport-1.0.xsd">
        <extreport:paymentFundsDataRsp>
          <extreport:paymentFundsData>
            <extreport:currentBalance>803.86</extreport:currentBalance>
          </extreport:paymentFundsData>
        </extreport:paymentFundsDataRsp>
        <extreport:offset>0</extreport:offset>
        <extreport:limit>50</extreport:limit>
        <extreport:size>1</extreport:size>
      </extreport:reportData>
    </extension>
    <trID>
      <svTRID>RE7632747544</svTRID>
    </trID>
  </response>
</epp>
```