

## 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 for Enum

#### 1. <domain:create>

- optional <reason> element containing justification of registrant's right to the domain name,

#### Example <domain:create>:

```
<?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>1.2.3.4.5.6.7.8.9.8.4.e164.arpa </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: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>my phone</extdom:reason>
        <extdom:book/>
    </extdom:create>
</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>6666666</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)
- <individual> element containing information if the contact represents private person,
  - <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:infData>
    </resData>
  </response>
</epp>

```

```

    <contact:fax>+48.1234567890</contact:fax>
    <contact:email>em@ail.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>
</epp>

```

```
</extcon:transfer>
</extension>
<clTRID>ABC-12345</clTRID>
</command>
</epp>
```

## **Futures**

Future are not available for Enum.

## **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,
  - 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>,
  - 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.

**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: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.

**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>
    <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>1.2.3.4.5.6.7.8.9.8.4.e164.arpa</extreport:name>
            <extreport:roid>1234-NASK</extreport:roid>
            <extreport:exDate>2007-03-
18T23:00:00.0Z</extreport:exDate>
          </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:domData>
        </extreport:domDataRsp>
      </extension>
    </extreport:reportData>
  </extension>
</epp>
```

```

        <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:reportData>
        </extension>
    </response>
</epp>

```

```

        <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. <extreport:hosDataRsp>

- a. zero or more <extreport:hosData> 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. <extreport:future>

- 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>
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