

DRS EPP manual

Using EPP with the DRS Domain Registration System for .amsterdam

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DRS EPP Manual (version 1.7)

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Changes

Version 1.6 → 1.7

Section [3.14 Key relay](#) added.

Version 1.5 → 1.6

Changes made to the address disclose object, to enable Whois data to be withheld.

Version 1.4 → 1.5

Correction to example domain:info command with token.

Reference to limit of ten domain names added to domain:check.

Version 1.3 → 1.4

Textual improvements made to [3.3 Domain create](#).

Version 1.2 → 1.3

[3.2 Domain info](#) amended in line with the introduction of the option of looking up the details of domain names managed by other registrars. That option has been made available where the user is in possession of a domain name's transfer token (Authinfo).

Version 1.1 → 1.2

Changes made in additional requirements to the EPP [1.5.1 Domain object](#).

Changes made in [2.1 Hello / greeting](#).

Changes made in [1.4.1 Enumeration for legal form](#).

Version 1.0 → 1.1

Textual improvements made to [4.3 Contact create](#).

Version 1.0

First version of the document.

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Chapter 1

Introduction

This manual has been developed to provide registrars affiliated to dotAmsterdam BV, the registry, with information about using the Domain Registration System (DRS) via the EPP interface. All the procedures involved in domain registration are covered.

This manual relates to the registration of domain names within the .amsterdam domain only. In this manual, therefore, 'domain name' always means '.amsterdam domain name', unless indicated otherwise. The word 'application' (and 'apply' etc.) are used extensively in this manual. In many cases, they are used in a general sense, to refer to any request or enquiry submitted to the DRS. Where this manual uses the notation <label>.amsterdam, a real domain name needs to be inserted by the DRS user.

The DRS is being improved all the time. This can lead to discrepancies between the images and descriptions in this manual and what a DRS user actually encounters.

This manual is intended only to provide general assistance with the registration of .amsterdam domain names and more specific guidance on using the DRS. No rights can therefore be derived from this manual.

This manual describes all EPP messages and explains how they are used by dotAmsterdam BV in the DRS.

EPP stands for Extensible Provisioning Protocol: a protocol defined by the Internet Engineering Task Force (IETF) for standardisation of the most common processes associated with the registration of domain names. The protocol is supported by many registries around the world.

Because the protocol is extensible, minor adaptations are often required in order to utilise the full functionality of a register.

The full protocol is available from the IETF. The following RFCs describe the basis for dotAmsterdam BV's implementation of EPP.

1.1 References

- rfc5730 General
- rfc5731 Domain Mapping
- rfc5732 Host Mapping
- rfc5733 Contact Mapping
- rfc3915 Domain Registry Grace Period Mapping
- rfc5910 DNSSEC
- rfc8063 Key Relay Mapping

1.2 Implemented EPP commands

EPP command	
Hello / greeting	See 2.1
Login	See 2.2
Logout	See 2.3
Poll (op = "req")	See 2.4
Poll (op = "ack")	See 2.4
Domain check	See 3.1
Domain info	See 3.2
Domain create	See 3.3
Domain update	See 3.4
Domain delete	See 3.5
Domain renew	See 3.6
Domainupdate restore (op = "report")	See 3.7
Domain transfer (op = "query")	See 3.8
Domain transfer (op = "request")	See 3.9
Domain transfer (op = "cancel")	See 3.10
Domain transfer (op = "approve")	See 3.11
Domain transfer (op = "reject")	See 3.12
Domain transfer token reminder	See 3.13
Key relay	See 3.14
Contact check	See 4.1
Contact info	See 4.2
Contact create	See 4.3
Contact update	See 4.4
Contact delete	See 4.5
Host check	See 5.1
Host info	See 5.2
Host create	See 5.3
Host update	See 5.4
Host delete	See 5.5

1.3 Unimplemented EPP commands

EPP command
Contact transfer (op = "query")
Contact transfer (op = "request")

If an unimplemented command is submitted to the DRS, the following response is given:

```
<?xml version="1.0" encoding="utf-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="2101">
      <msg>Unimplemented command</msg>
    </result>
    <trID>
      <clTRID>ABC-12345</clTRID>
      <svTRID>SIDN</svTRID>
    </trID>
  </response>
</epp>
```

1.4 EPP extensions

EPP command	EPP command
Domain transfer (op = "request")	Extension for token in response message
N/a	Extension for domain name, application date, applicant and tokenIssuedDate in response message to the EPP commands domain:transfer token reminder and Domain transfer token supply NB: in EPP, UTC format is used for all date fields and time statements, including those provided for by this extension.
Contact info	Extension for legal form and legal form registration number in response message
Contact create	Extension for legal form and legal form registration number
Contact update	Extension for legal form and legal form registration number
All	Extension for reporting field, code and message in response messages

1.4.1 Enumeration for legal form

The 'legal form' attribute can have any one of the following values:

Value	Meaning
ANDERS	Other
BGG	Non-Dutch EC company
BRO	Non-Dutch legal form/enterprise/subsidiary
BV	Limited company
BV/O	Limited company in formation
COOP	Cooperative
CV	Dormant company
EENMANZAAK	Sole trader
EESV	European economic interest group
KERK	Religious society
MAATSCHAP	Partnership
NV	Public company
OWM	Mutual benefit company

PERSOON	Natural person
REDR	Shipping company
STICHTING	Foundation
VERENIGING	Association
VOF	Trading partnership

1.4.2 Enumeration for command in poll response message

The 'command' attribute can have any one of the following values:

Value	Meaning
host:update	Relates to an update to a name server
contact:update	Relates to an update to a contact person
domain:create	Relates to the creation of a domain name
domain:delete	Relates to the deletion of a domain name
domain:update	Relates to an update to a domain name
domain:transfer	Relates to the transfer of a domain name
domain:transfer-start	Relates to the start of a domain name transfer
domain:transfer-escalate	Relates to the escalation of a domain name transfer
domain:transfer-token-reminder	Relates to reminder to registrar that a token needs to be issued to a registrant
domain:transfer-token-supply	Relates to the issue of a token

1.5 additional requirements to the EPP

1.5.1 Domain object

Domain.ns: The registry has opted for a 'hostObj' implementation for the authoritative name servers associated with a domain name. The registry limits the number of authoritative name servers to a maximum of thirteen.

Domain.registrant: The registry has made the 'registrant' attribute mandatory.

Domain.contact: The only contact types supported by the registry are 'admin' 'billing' and 'tech'. The registry has defined the following supplementary rules:

- For each domain name, a minimum of 1 and maximum of 1 'admin' must be specified.
- For each domain name, a minimum of 1 'tech' must be specified.

Domain.authInfo: In the DRS, the 'authInfo' attribute is used only in the context of domain transfers. The attribute is therefore used only in the Domain transfer (op = "request") command. AuthInfo is also provided in the response message sent in reply to a Domain info command and in the response message sent following completion of a successful transfer. Important: In the EPP, the use of this attribute is mandatory. Consequently, a value must be stated for this attribute, even though it will be ignored by the DRS on receipt.

DNSSEC

secDNS:dsData vs secDNS:keyData: The EPP allows for DNSSEC data to be recorded for a domain. IETF RFC5910 provides the option of recording <secDNS:dsData> or <secDNS:keyData>. In DRS is chosen for secDNS:keyData.

secDNS:maxSigLife: To enable a 'chain of trust' to be created, the DS data for a child name server are recorded in the zone of its parent name server and signed by the parent. The EPP allows a registrar to use maxSigLife to tell the registry what the lifespan of the DS data signature should be. That option is not supported by the DRS, however.

secDNS:update urgent="true": The EPP allows the option of using the secDNS:update command to indicate that an update is urgent. That option is not supported by the DRS, however.

1.5.2 Contact object

Contact.name: In the EPP, the name is part of the 'postalInfo' group. That group has both a localised format (unrestricted UTF-8) and an internationalised format (a subset of UTF-8 that can be represented in the 7-bit US-ASCII character set.). The DRS implementation uses only one format (unrestricted UTF-8) for a name in order to prevent two names being recorded for the same contact (one in each format).

Contact.org: In the EPP, this field is intended for the name of the organisation. However, SIDN's DRS implementation uses this field for the name of the department that the contact is affiliated to. In the EPP, the 'org' attribute is part of the 'postalInfo' group. That group has both a localised format (unrestricted UTF-8) and an internationalised format (a subset of UTF-8 that can be represented in the 7-bit US-ASCII character set.). The DRS implementation uses only one format (unrestricted UTF-8) for a name in order to prevent two names being recorded (one in each format).

Contact.status: The DRS does not support the following contact statuses:

- clientDeleteProhibited
- clientTransferProhibited
- clientUpdateProhibited
- pendingDelete
- pendingTransfer
- serverDeleteProhibited
- serverTransferProhibited
- serverUpdateProhibited

Therefore no 'client' statuses can be defined by a managing registrar.

Contact.postalinfo: The registry has set a maximum of one op. Only type="loc" is supported.

Contact.street: The registry has set a minimum of one op. A PO Box is not permitted in the first 'street' tag.

Contact.sp: In the EPP, a contact has a 'state/province' attribute. That attribute has not been implemented in the DRS.

Contact.pc: The registry has made this field mandatory if the country code 'NL' is used. In that case, the postcode must always start with four numeric characters and end with two capital letters (regular expression: "[0-9]{4}[A-Z]{2}").

Contact.voice: In the EPP, a phone number is not mandatory. In the DRS, a phone number *is* mandatory.

Contact.voice and contact.fax: A fax number or phone number is a string starting with a '+' followed by the country code, followed by a '.' and then a series of numeric characters being the fax number or phone number (regular expression: "(\\+[0-9]{1,3}\\.[0-9]{1,14})?").

The following rules apply to fax numbers and phone numbers with the country code +31: the length of the fax number or phone number excluding separators (".", " " or "-") and excluding the leading zero, must be nine positions (unless it begins with 08 or 09).

In the EPP, an optional 'x' attribute is included, but the DRS does not support this.

Contact.trDate: The EPP standard provides for a contact transfer date, indicating when a contact was last transferred. In the DRS, however, contacts cannot be transferred, so this attribute has not been implemented.

Contact.authInfo: In the EPP, a contact has an 'authInfo' attribute, which is used to implement a 'token' method. The DRS does not support the use of tokens for Contact objects, however, so this attribute has not been implemented. Important: In the EPP, the use of this attribute is mandatory in the 'Contact create' command. Consequently, a value must be stated for this attribute, even though it will be ignored by the DRS on receipt.

Contact.id: In the EPP, when a contact is created, the creator must specify their own ID for the contact. In the DRS, the creator's contact ID is ignored and the server generates its own ID (= handle). The handle generated by The registry will have the format XXX999999-YYYYY (regular expression: [A-Z]{3}[0-9]{6}-[A-Z0-9]{5}).

1.5.3 Host object

If an EPP user is not authorised to submit an EPP transformation command regarding the Host object, EPP response 2201 should be given. However, the DRS does not support an EPP command-level authorisation model for EPP users. Authorisation is at the Log in level.

Host.status: The DRS does not support the following name server statuses:

- clientDeleteProhibited
- clientUpdateProhibited
- serverDeleteProhibited
- serverUpdateProhibited
- pendingDelete
- pendingTransfer

Therefore no 'client' statuses can be defined by a managing registrar.

Host.name: The name of a name server cannot be changed in the DRS, so the 'chg' attribute has not been implemented in the 'Host update' command.

Host.IP address: The registry has set a maximum of ten ops.

1.6 Standard response messages

In many cases, the response to an EPP command is a standard message containing a result code and, where relevant, error reports. In such cases, the structure of the response message is as follows:

Tag	Description	Occurrence min-max	Notes
<epp>		1	
<response>		1	
<result>	Result of the transaction	1-*	Contains an attribute 'code' with the EPP result code (see RFC4930 for the possible codes).
<msg>	Text stating the result of the transaction	1	
<value>		0-*	Not used.
<extValue>		0-*	Not used.
<value>		1	Not used.
<reason>		1	Not used.
<msgQ>		0-1	Used only in Poll (op = "req"); see paragraph 2.4.
<qDate>		0-1	Used only in Poll (op = "req"); see paragraph 2.4.
<msg>		0-1	Used only in Poll (op = "req"); see paragraph 2.4.
<resData>		0-1	Used only in certain circumstances; see individual sections.
<extension>	Contains registry-specific extensions to the response message	0-1	
<ext>		1-*	
<response>		1	
<msg>	Contains information about errors that have occurred	1-*	Contains the text of the error message, a mandatory attribute code with the error code and an optional attribute field, which identifies the field to which the error applies.
<trID>		1	
<clTRID>	Registrar's transaction ID	0-1	
<svTRID>	Server's transaction ID	1	

In some cases, the structure of a response message differs from the above (e.g. because additional data must be provided). In such cases, the specific response message is described in the section of this manual that deals with the command in question.

Chapter 2

EPP - Sessions

This section describes the following EPP forms:

- [2.1 Hello / greeting](#)
- [2.2 Login](#)
- [2.3 Logout](#)
- [2.4 Poll \(op = "req"\)](#)
- [2.4 Poll \(op = "ack"\)](#)

2.1 Hello / greeting

Once an SSL connection with the EPP server has been established, you receive a `<greeting>`. You may then log in (see [2.2 Login](#)). A `<greeting>` can be prompted at any time by sending a `<hello>`. The idle timeout for a DRS-session is 10 minutes.

EPP command

Tag	Description	Occurrence min-max	Notes
<code><epp></code>		1	
<code><hello></code>		1	

Example EPP command

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <hello/>
</epp>
```

Response message

Tag	Description	Occurrence min-max	Notes/Content
<code><epp></code>		1	
<code><greeting></code>		1	
<code><svID></code>	Name of the server	1	drs.amsterdam
<code><svDate></code>	System date and time	1	
<code><svcMenu></code>	Services that are supported by the server	1	
<code><version></code>	Supported EPP version	0-*	1.0
<code><lang></code>	Supported languages	1-*	en nl
<code><objURI></code>	Namespace URIs of the objects supported by the server	1-*	urn:ietf:params:xml:ns:contact-1.0 urn:ietf:params:xml:ns:domain-1.0 urn:ietf:params:xml:ns:host-1.0
<code><svcExtension></code>		0-1	

<extURI>	Namespace URIs of the extensions supported by the server	1-*	urn:ietf:params:xml:ns:secDNS-1.1 http://rxdn.domain-registry.nl/sidn-ext-epp-1.0 urn:ietf:params:xml:ns:rgp-1.0
<dcP>	Server privacy policy for data collection and management	1	
<access>		1	<all/>
<statement>		1-*	
<purpose>		1	<admin/> and <prov/>
<recipient>		1	<ours/> and <public/>
<retention>		1	<stated/>
<expiry>		0-1	Not used.

Example response message

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <greeting>
    <svID>domain-registry.nl</svID>
    <svDate>2013-06-21T13:32:08.868Z</svDate>
    <svcMenu>
      <version>1.0</version>
      <lang>en</lang>
      <lang>nl</lang>
      <objURI>urn:ietf:params:xml:ns:contact-1.0</objURI>
      <objURI>urn:ietf:params:xml:ns:host-1.0</objURI>
      <objURI>urn:ietf:params:xml:ns:domain-1.0</objURI>
      <svcExtension>
        <extURI>http://rxdn.domain-registry.nl/sidn-ext-epp-1.0</extURI>
        <extURI>urn:ietf:params:xml:ns:secDNS-1.1</extURI>
        <extURI>urn:ietf:params:xml:ns:rgp-1.0</extURI>
      </svcExtension>
    </svcMenu>
    <dcP>
      <access>
        <all/>
      </access>
      <statement>
        <purpose>
          <admin/>
          <prov/>
        </purpose>
        <recipient>
          <ours/>
          <public/>
        </recipient>
        <retention>
          <stated/>
        </retention>
      </statement>
    </dcP>
  </greeting>
</epp>
```

2.2 Login

The 'login' command is used to establish an EPP session.

The login command can also be used to change your EPP password . After changing your password, all open EPP sessions will need to be re-established using the new password. If you do not re-establish an

open session, you will get an EPP error message with the result code 2501 (Authentication error; server closing connection) in response to the next command.

The most important information that you send when logging in are your user name and password. For more information, see the General DRS Manual.

Following a successful log-in, you can submit other commands.

The DRS allows up to eight simultaneous sessions per registrar. Once the maximum number of sessions are in progress, it is not possible to open more.

EPP command

Tag	Description	Occurrence min-max	Notes
<epp>		1	
<command>		1	
<login>		1	
<clID>	User name of registrar	1	
<pw>	Password	1	
<newPW>	New password	0-1	
<options>		1	
<version>	EPP version used by the registrar	1	The version stated in greeting message
<lang>	Language used by the registrar	1	Choice as stated in greeting message
<svcs>		1	
<objURI>	Namespace URIs of the objects to be used by the registrar	1-*	Choice as stated in greeting message
<svcExtension>		0-1	
<extURI>	Namespace URIs of the extensions to be used by the registrar	1-*	Choice as stated in greeting message
<clTRID>	Registrar's transaction ID	0-1	

Example EPP command

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <command>
    <login>
      <clID>104000</clID>
      <pw>geheim</pw>
      <options>
        <version>1.0</version>
        <lang>en</lang>
      </options>
      <svcs>
        <objURI>urn:ietf:params:xml:ns:contact-1.0</objURI>
        <objURI>urn:ietf:params:xml:ns:host-1.0</objURI>
        <objURI>urn:ietf:params:xml:ns:domain-1.0</objURI>
        <svcExtension>
          <extURI>http://rxd.domain-registry.nl/sidn-ext-epp-1.0</extURI>
          <extURI>urn:ietf:params:xml:ns:secDNS-1.1</extURI>
          <extURI>urn:ietf:params:xml:ns:rgp-1.0</extURI>
        </svcExtension>
      </svcs>
    </login>
    <clTRID>300100</clTRID>
  </command>
</epp>
```

Response message

See subsection [1.6 Standard response messages](#).

Example response message (transaction successful)

```
<?xml version="1.0" encoding="utf-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000">
      <msg>The transaction was completed successfully.</msg>
    </result>
    <trID>
      <clTRID>300100</clTRID>
      <svTRID>71D8D813-EF3A-7449-ECF2-64A419E5FDAE</svTRID>
    </trID>
  </response>
</epp>
```

Example response message (transaction unsuccessful)

```
<?xml version="1.0" encoding="utf-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0" xmlns:sidn-ext-
epp="http://rxsd.domain-registry.nl/sidn-ext-epp-1.0">
  <response>
    <result code="2200">
      <msg>Authentication error</msg>
    </result>
    <extension>
      <sidn-ext-epp:ext>
        <sidn-ext-epp:response>
          <sidn-ext-epp:msg field="registrarnummer" code=" T0003">You have
entered an invalid user name/password combination.</sidn-ext-epp:msg>
        </sidn-ext-epp:response>
      </sidn-ext-epp:ext>
    </extension>
    <trID>
      <clTRID>300100</clTRID>
      <svTRID>E60A260F-AF34-71C1-006E-085C2AF1DDA0</svTRID>
    </trID>
  </response>
</epp>
```

2.3 Logout

The 'logout' command is used to end a session with the DRS. Once the session has been ended, you cannot send further commands.

Sessions are also terminated automatically after 24 hours or following ten minutes of inactivity.

EPP command

Tag	Description	Occurrence min-max	Notes
<epp>		1	
<command>		1	
<logout>		1	
<clTRID>	Registrar's transaction ID	0-1	

Example EPP 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">
  <command>
    <logout/>
  </command>
</epp>
```

Response message

See subsection [1.6 Standard response messages](#).

Example response message

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1500">
      <msg>You are now logged off.</msg>
    </result>
    <trID>
      <svTRID>ABC-12345</svTRID>
    </trID>
  </response>
</epp>
```

2.4 Poll (op = "req")

Poll commands are used to establish whether there are messages waiting for you in the DRS queue, and to answer them.

The command `<poll op="req"/>` prompts the DRS to present the first element in the queue (if present). The response from the DRS consists of the contents of the message and the number of messages in the queue. You can then use `<poll op="ack">` to retrieve the message from the queue, so that the next message can be checked by submitting another `<poll op="req"/>`.

It is important that you regularly check your message queue.

EPP command

Tag	Description	Occurrence min-max	Notes
<epp>		1	
<command>		1	
<poll>		1	Contains an 'op' attribute with the value 'req'.
<clTRID>	Registrar's transaction ID	0-1	

Example EPP command

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <command>
    <poll op="req"/>
    <clTRID>ABC-12345</clTRID>
  </command>
</epp>
```

Response message

For the full response message, see subsection [1.6 Standard response messages](#). The following additional tags are used:

Tag	Description	Occurrence min-max	Notes
<msgQ>		0-1	Contains a 'count' attribute stating the number of messages remaining in the poll queue for this registrar and an 'id' attribute stating the ID of the message contained in this response.
<qDate>	Date of the message contained in this response	0-1	
<msg>	Subject of the message contained in this response	0-1	
<resData>		0-1	
<pollData>		0-1	
<command>	Indicates the response message type	1	See subsection 1.4.2 for possible values.
<data>	Contents of the message contained in this response	1	Contains the entire contents of the response message in the queue that is shown. Structure is the same as the structure of the response message sent on line, within the tags <epp> and <response>.

Example response message (host:update transaction successful)

```
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0" xmlns:sidn-ext-
epp="http://rxsd.domain-registry.nl/sidn-ext-epp-1.0">
  <response>
    <result code="1301">
      <msg>The message has been picked up. Please confirm receipt to remove
the message from the queue.</msg>
    </result>
    <msgQ count="9" id="100000">
      <qDate>2009-10-27T10:34:32.000Z</qDate>
      <msg>1202 Change to name server ns1.doris.amsterdam processed</msg>
    </msgQ>
    <resData>
      <sidn-ext-epp:pollData>
        <sidn-ext-epp:command>host:update</sidn-ext-epp:command>
        <sidn-ext-epp:data>
          <result code="1000">
            <msg>The name server has been changed after
consideration.</msg>
          </result>
          <trID>
            <clTRID>TestWZNM10T50</clTRID>
            <svTRID>100012</svTRID>
          </trID>
        </sidn-ext-epp:data>
      </sidn-ext-epp:pollData>
    </resData>
```

```

    <trID>
      <clTRID>500100-300</clTRID>
      <svTRID>F57DC47E-EC1B-14B8-D672-4C7100C1A890</svTRID>
    </trID>
  </response>
</epp>

```

Example response message (contact:update transaction successful)

```

<epp xmlns="urn:ietf:params:xml:ns:epp-1.0" xmlns:sidn-ext-
epp="http://rxsd.domain-registry.nl/sidn-ext-epp-1.0">
  <response>
    <result code="1301">
      <msg>The message has been picked up. Please confirm receipt to remove
the message from the queue.</msg>
    </result>
    <msgQ count="8" id="100001">
      <qDate>2009-10-27T10:35:32.000Z</qDate>
      <msg>1100 Details of contact person TEA000031-GOEDA updated</msg>
    </msgQ>
    <resData>
      <sidn-ext-epp:pollData>
        <sidn-ext-epp:command>contact:update</sidn-ext-epp:command>
        <sidn-ext-epp:data>
          <result code="1000">
            <msg>The contact person has been changed after
consideration.</msg>
          </result>
          <trID>
            <svTRID>100006</svTRID>
          </trID>
        </sidn-ext-epp:data>
      </sidn-ext-epp:pollData>
    </resData>
    <trID>
      <clTRID>500100-301</clTRID>
      <svTRID>F57DC47E-EC1B-14B8-D672-4C7100C1A891</svTRID>
    </trID>
  </response>
</epp>

```

Example response message (domain:delete transaction successful)

```

<epp xmlns="urn:ietf:params:xml:ns:epp-1.0" xmlns:sidn-ext-
epp="http://rxsd.domain-registry.nl/sidn-ext-epp-1.0">
  <response>
    <result code="1301">
      <msg>The message has been picked up. Please confirm receipt to remove
the message from the queue.</msg>
    </result>
    <msgQ count="6" id="100003">
      <qDate>2009-10-27T10:37:32.000Z</qDate>
      <msg>2018 'Delete domain name' transaction for doris.amsterdam
rejected</msg>
    </msgQ>
    <resData>
      <sidn-ext-epp:pollData>
        <sidn-ext-epp:command>domain:delete</sidn-ext-epp:command>
        <sidn-ext-epp:data>
          <result code="2308">

```

```

        <msg>Deletion of the domain name has been considered and
rejected because a constraint applies.</msg>
    </result>
    <trID>
        <clTRID>TestVWDNC10T30</clTRID>
        <svTRID>100045</svTRID>
    </trID>
</sidn-ext-epp:data>
</sidn-ext-epp:pollData>
</resData>
<trID>
    <clTRID>500100-303</clTRID>
    <svTRID>F57DC47E-EC1B-14B8-D672-4C7100C1A893</svTRID>
</trID>
</response>
</epp>

```

Example response message (domain:transfer transaction successful)

```

<epp xmlns="urn:ietf:params:xml:ns:epp-1.0" xmlns:sidn-ext-
epp="http://rxsd.domain-registry.nl/sidn-ext-epp-1.0"
xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
    <response>
        <result code="1301">
            <msg>The message has been picked up. Please confirm receipt to remove
the message from the queue.</msg>
        </result>
        <msgQ count="4" id="100005">
            <qDate>2009-10-27T10:39:32.000Z</qDate>
            <msg>1015 Transfer domain name domaintransfer31.amsterdam
processed</msg>
        </msgQ>
        <resData>
            <sidn-ext-epp:pollData>
                <sidn-ext-epp:command>domain:transfer</sidn-ext-epp:command>
                <sidn-ext-epp:data>
                    <result code="1000">
                        <msg>The domain name has been transferred.</msg>
                    </result>
                    <resData>
                        <domain:trnData>
                            <domain:name>domaintransfer31.amsterdam</domain:name>
                            <domain:trStatus>pending</domain:trStatus>
                            <domain:reID>104000</domain:reID>
                            <domain:reDate>2009-10-29T13:06:34.935Z</domain:reDate>
                            <domain:acID>102000</domain:acID>
                            <domain:acDate>2009-11-03T13:06:34.935Z</domain:acDate>
                        </domain:trnData>
                    </resData>
                <trID>
                    <clTRID>C0101C10T10</clTRID>
                    <svTRID>100027</svTRID>
                </trID>
            </sidn-ext-epp:data>
        </sidn-ext-epp:pollData>
    </resData>
    <trID>
        <clTRID>500100-305</clTRID>
        <svTRID>F57DC47E-EC1B-14B8-D672-4C7100C1A895</svTRID>
    </trID>
</response>

```

```
</epp>
```

Example response message (domain:transfer-start transaction successful)

```
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0" xmlns:sidn-ext-
epp="http://rxd.domain-registry.nl/sidn-ext-epp-1.0"
xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
  <response>
    <result code="1301">
      <msg>The message has been picked up. Please confirm receipt to remove
the message from the queue.</msg>
    </result>
    <msgQ count="3" id="100006">
      <qDate>2009-10-27T10:40:32.000Z</qDate>
      <msg>1014 Transfer domain name domaintransfer31.amsterdam is being
processed</msg>
    </msgQ>
    <resData>
      <sidn-ext-epp:pollData>
        <sidn-ext-epp:command>domain:transfer-start</sidn-ext-epp:command>
        <sidn-ext-epp:data>
          <result code="1000">
            <msg>Transfer of the domain name has begun.</msg>
          </result>
          <resData>
            <domain:trnData>
              <domain:name>domaintransfer31.amsterdam</domain:name>
              <domain:trStatus>pending</domain:trStatus>
              <domain:reID>104000</domain:reID>
              <domain:reDate>2009-10-29T13:06:34.935Z</domain:reDate>
              <domain:acID>102000</domain:acID>
              <domain:acDate>2009-11-03T13:06:34.935Z</domain:acDate>
            </domain:trnData>
          </resData>
          <trID>
            <svTRID>100027</svTRID>
          </trID>
        </sidn-ext-epp:data>
      </sidn-ext-epp:pollData>
    </resData>
    <trID>
      <clTRID>500100-306</clTRID>
      <svTRID>F57DC47E-EC1B-14B8-D672-4C7100C1A896</svTRID>
    </trID>
  </response>
</epp>
```

Poll (op = "ack")

When you acknowledge a message retrieved from the queue, it is deleted from the queue, enabling you to poll the next message.

EPP command

Tag	Description	Occurrence min-max	Notes
<epp>		1	
<command>		1	
<poll>		1	Contains an 'op' attribute with the value 'ack' and a 'msgID' attribute with the ID of the message to be deleted from the poll queue.

<clTRID>	Registrar's transaction ID	0-1	
----------	----------------------------	-----	--

Example EPP command

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <command>
    <poll op="ack" msgID="100000"/>
    <clTRID>500100-303</clTRID>
  </command>
</epp>
```

Response message

For the full response message, see subsection [1.6 Standard response messages](#).

The following additional tags are used:

Tag	Description	Occurrence min-max	Notes
<msgQ>		0-1	Contains a 'count' attribute stating the number of messages remaining in the poll queue for this registrar and an 'id' attribute stating the ID of the message deleted from the poll queue.

Example response message

```
<?xml version="1.0" encoding="utf-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000">
      <msg>The transaction was completed successfully.</msg>
    </result>
    <msgQ id="100000" count="13"/>
    <trID>
      <clTRID>500100-303</clTRID>
      <svTRID>6A5D4AA8-EF2F-A653-3A22-CB56B1AE1F79</svTRID>
    </trID>
  </response>
</epp>
```

Chapter 3

EPP – Domain names

This section describes the following EPP forms:

- 3.1 Domain check
- 3.2 Domain info
- 3.3 Domain create
- 3.4 Domain update
- 3.5 Domain delete
- 3.6 Domain renew
- 3.7 Domain update (op = restore)
- 3.8 Domain transfer (op = "query")
- 3.9 Domain transfer (op = "request")
- 3.10 Domain transfer (op = "cancel")
- 3.11 Domain transfer (op = "approve")
- 3.12 Domain transfer (op = "reject")
- 3.13 Domain transfer token reminder
- 3.14 Key relay

3.1 Domain check

The check command is used to check the status of one or more .amsterdam domain names. So, for example, before attempting to register a new domain name, you can check whether its status is *Available*.

You can perform a domain check on any .amsterdam domain name, regardless of whether the name in question is under your control.

It is possible to check the status of more than one domain name using a single command.

EPP command

Tag	Description	Occurrence min-max	Notes
<epp>		1	
<command>		1	
<check>		1	SIDN has set a maximum of 10 domain names
<name>	One or more domain names whose availability is to be checked	1.*	
<c TRID>	Registrar's transaction ID	0-1	

Example EPP command

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<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>doris.amsterdam</domain:name>
        <domain:name>dyris.amsterdam</domain:name>
      </domain:check>
    </check>
    <clTRID>ABC-12345</clTRID>
  </command>
</epp>
```

Response message

For the full response message, see subsection [1.6 Standard response messages](#).

The following additional tags are used:

Tag	Description	Occurrence min-max	Notes
<resData>		1	
<chkData>		1	
<cd>		1-*	SIDN has set a maximum of 10 domain names
<name>	Domain name	1-10	Each domain name has an 'avail' attribute indicating whether it is available (= "true") or unavailable (= "false").
<reason>		0-1	Not used.

Example response message (transaction successful)

```
<?xml version="1.0" encoding="utf-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
  xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
  <response>
    <result code="1000">
      <msg>The availability of the domain name has been checked.</msg>
    </result>
    <resData>
      <domain:chkData>
        <domain:cd>
          <domain:name avail="false">doris.amsterdam</domain:name>
        </domain:cd>
        <domain:cd>
          <domain:name avail="true">dyris.amsterdam</domain:name>
        </domain:cd>
      </domain:chkData>
    </resData>
    <trID>
      <clTRID>ABC-12345</clTRID>
      <svTRID>AB75F31C-0111-DF51-A78D-7E7747FE632B</svTRID>
    </trID>
  </response>
</epp>
```

Example response message (transaction unsuccessful)

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0" xmlns:sidn-ext-
  epp="http://rxsd.domain-registry.nl/sidn-ext-epp-1.0">
```

```

<response>
  <result code="2308">
    <msg>Validation of the transaction failed.</msg>
  </result>
  <extension>
    <sidn-ext-epp:ext>
      <sidn-ext-epp:response>
        <sidn-ext-epp:msg code="F0018" field="Domain name">A domain name
must end with ?.amsterdam?.</sidn-ext-epp:msg>
      </sidn-ext-epp:response>
    </sidn-ext-epp:ext>
  </extension>
  <trID>
    <clTRID>ABC-12345</clTRID>
    <svTRID>DFA2ABF8-5C93-51D3-2141-93E88E74E9BC</svTRID>
  </trID>
</response>
</epp>

```

3.2 Domain info

This command is used to request information about a domain name.

EPP command

Tag	Description	Occurrence min-max	Notes
<epp>		1	
<command>		1	
<info>		1	
<name>	Domain name	1	Possible values of 'hosts' attribute = "all", "del", "none" or "sub". This indicates which hosts are expected in the response.
<authinfo>		0-1	
<pw>	Token associated with the domain name	1	Optional attribute
<clTRID>	Registrar's transaction ID	0-1	

Example EPP command without token

```

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<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 hosts="all">doris.amsterdam</domain:name>
      </domain:info>
    </info>
    <clTRID>ABC-12345</clTRID>
  </command>
</epp>

```

Example EPP command with token

```

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<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 hosts="all">doris.amsterdam</domain:name>
</domain:info>
  <domain:authInfo>
    <domain:pw>96vQA4pT8ds</domain:pw>
  </domain:authInfo>
</info>
<clTRID>ABC-12345</clTRID>
</command>
</epp>

```

Response message

For the full response message, see subsection [1.6 Standard response messages](#). The following additional tags are used:

Tag	Description	Occurrence min-max	Notes
<resData>		1	
<infData>		1	
<name>	Domain name	1	
<roid>	Repository Object Identifier assigned to the object when the object was created	1	
<status>	One or more statuses of the domain name	0-*	The actual status is contained in the 's' attribute.
<registrant>	Handle of the registrant	1	
<contact>	Handle of contact	0-*	The attribute type is used to indicate the contact role.
<ns>		0-1	
<hostObj>	Authoritative name server	0-*	The registry has set a maximum of 13 ops.
<hostAttr>			Not used.
<host>	Subordinate name server	0-*	
<clld>	Managing registrar	0-1	
<crld>	Registrar that created the domain name	0-1	
<crDate>	Date that the domain name was created	0-1	
<exDate>		0-1	
<upld>	Registrar that last updated the domain name	0-1	
<upDate>	Date that the domain name was last updated	0-1	
<trDate>	Date that the domain name was last transferred	0-1	
<authInfo>		0-1	
<pw>	Token	1	
<extension>			
<secDNS:infData>		0-1	
<secDNS:keyData>		1-*	The registry has set a maximum of 4 ops.
<secDNS:flags>	Flag value for this resource record	1	256 or 257.
<secDNS:protocol>		1	Fixed value: 3.
<secDNS:alg>	Algorithm of the public key	1	See the domain_model for details of the supported algorithms.
<secDNS:pubKey>	Public key	1	In base64 code.
<ext>			
<infData>			
<domain>			
<optOut>	Indicates whether the domain name is covered by an optOut	1	"false"

<limited>	Indicates whether the domain name has the SIDN status 'Limited'	1	"false"
-----------	---	---	---------

Example response message (transaction successful)

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
xmlns:domain="urn:ietf:params:xml:ns:domain-1.0" xmlns:sidn-ext-
epp="http://rxsd.domain-registry.nl/sidn-ext-epp-1.0">
  <response>
    <result code="1000">
      <msg>The domain name has been queried.</msg>
    </result>
    <resData>
      <domain:infData>
        <domain:name>domeinnaam39.amsterdam</domain:name>
        <domain:roid>DNM_100028-SIDN</domain:roid>
        <domain:status s="inactive"/>
        <domain:registrant>CON009003-DEEL1</domain:registrant>
        <domain:contact type="admin">CON009003-DEEL1</domain:contact>
        <domain:contact type="tech">CON009003-DEEL1</domain:contact>
        <domain:clID>DEEL1</domain:clID>
        <domain:crID>DEEL1</domain:crID>
        <domain:crDate>2013-06-19T08:17:56.000Z</domain:crDate>
        <domain:exDate>2014-06-19T08:17:56.000Z</domain:exDate>
        <domain:authInfo>
          <domain:pw>token011</domain:pw>
        </domain:authInfo>
      </domain:infData>
    </resData>
    <extension>
      <sidn-ext-epp:ext>
        <sidn-ext-epp:infData>
          <sidn-ext-epp:domain>
            <sidn-ext-epp:limited>false</sidn-ext-epp:limited>
            <sidn-ext-epp:optOut>false</sidn-ext-epp:optOut>
          </sidn-ext-epp:domain>
        </sidn-ext-epp:infData>
      </sidn-ext-epp:ext>
    </extension>
    <trID>
      <clTRID>ABC-12345</clTRID>
      <svTRID>836CCB45-A0C4-3AC1-B6FF-7B84CD9EB636</svTRID>
    </trID>
  </response>
</epp>
```

Example response message (transaction unsuccessful)

```
<?xml version="1.0" encoding="utf-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0" xmlns:sidn-ext-
epp="http://rxsd.domain-registry.nl/sidn-ext-epp-1.0">
  <response>
    <result code="2303">
      <msg>The specified domain name is unknown.</msg>
    </result>
    <extension>
      <sidn-ext-epp:ext>
        <sidn-ext-epp:response>
          <sidn-ext-epp:msg field="" code="T0001">De opgegeven domeinnaam
is onbekend.</sidn-ext-epp:msg>
        </sidn-ext-epp:response>
      </sidn-ext-epp:ext>
    </extension>
  </response>
</epp>
```

```

    </sidn-ext-epp:ext>
  </extension>
  <trID>
    <clTRID>ABC-12345</clTRID>
    <svTRID>7BEC47D3-6538-4AFB-0E2C-9AECB9394915</svTRID>
  </trID>
</response>
</epp>

```

3.3 Domain create

Aim:	To apply for a new domain name on behalf of a registrant
Requirements:	Domain name, registrant-handle, admin-c handle, tech-c handle and name servers. Optional: DNSSEC data and reference number
Condition:	Domain name's status is 'Available'
Outcome:	Domain name is active (if two or more name servers specified in the application) Domain name inactive (if fewer than two name servers specified in the application)

EPP command

Tag	Description	Occurrence min-max	Notes
<epp>		1	
<command>		1	
<create>		1	
<name>	Domain name	1	
<period>		0-1	
<ns>		0-1	
<hostObj>	Authoritative name server	1-*	The registry has set a maximum of 13 ops.
<hostAttr>			Not used.
<registrant>	Registrant	0-1	The registry has made this field non-mandatory.
<contact>	Handles of contacts linked to the relevant domain name	0-*	Contains mandatory attribute 'type'; the registry supports only the types "admin" and "tech". The registry applies the following additional rules: - minimum of 1 and maximum of 1 "admin" - minimum of 1 "tech"
<authInfo>		1	Not used.
<extension>		0-1	
secDNS:create		1	
secDNS:maxSigLife		0-1	Not used.
secDNS:dsData		0-*	Not used.
...			Everything under dsData not used.
secDNS:keyData		0-*	The registry has set a maximum of 4 ops.
secDNS:flags	Flag value for this resource record	1	256 or 257.
secDNS:protocol	Protocol	1	Fixed value: 3.
secDNS:alg	Algorithm used to generate the public key	1	Only algorithms published by IANA are accepted
secDNS:pubKey	Public key	1	In base64 code.
<clTRID>	Registrar's transaction ID	0-1	

Example EPP command

```

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<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>domeinnaam.amsterdam</domain:name>
<domain:period unit="y">2</domain:period>
      <domain:ns>
        <domain:hostObj>ns2.domeinnaam1.amsterdam</domain:hostObj>
        <domain:hostObj>ns1.domeinnaam1.amsterdam</domain:hostObj>
      </domain:ns>
      <domain:registrant>CON000528-DEEL1</domain:registrant>
      <domain:contact type="admin">CON000528-DEEL1</domain:contact>
      <domain:contact type="tech">CON000528-DEEL1</domain:contact>
      <domain:authInfo>
        <domain:pw>2fooBAR</domain:pw>
      </domain:authInfo>
    </domain:create>
  </create>
  <clTRID>CODLC10T10d-domaincreate</clTRID>
</command>
</epp>

```

Response message

For the full response message, see subsection [1.6 Standard response messages](#).

The following additional tags are used:

Tag	Description	Occurrence min-max	Notes
<resData>		1	
<creData>		1	
<name>	Domain name	1	
<crDate>	Date that the domain name was created	1	
<exDate>		0-1	

Example response message (transaction successful)

```

<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
  xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
  <response>
    <result code="1000">
      <msg>The domain name has been registered.</msg>
    </result>
    <resData>
      <domain:creData>
        <domain:name>testdomain.amsterdam</domain:name>
        <domain:crDate>2013-06-21T14:04:51.000Z</domain:crDate>
        <domain:exDate>2015-06-21T14:04:51.000Z</domain:exDate>
      </domain:creData>
    </resData>
    <trID>
      <clTRID>CODLC10T10d-domaincreate</clTRID>
      <svTRID>100280</svTRID>
    </trID>
  </response>
</epp>

```

Example response message (transaction unsuccessful)

```

<?xml version="1.0" encoding="utf-8"?>

```

```

<epp xmlns="urn:ietf:params:xml:ns:epp-1.0" xmlns:sidn-ext-
epp="http://rxsd.domain-registry.nl/sidn-ext-epp-1.0">
  <response>
    <result code="2302">
      <msg>The domain name is already active or is excluded from
registration.</msg>
    </result>
    <extension>
      <sidn-ext-epp:ext>
        <sidn-ext-epp:response>
          <sidn-ext-epp:msg field="" code="C0024">The domain name is
already active, or the domain name is excluded from registration.sidn-ext-
epp:msg>
        </sidn-ext-epp:response>
      </sidn-ext-epp:ext>
    </extension>
    <trID>
      <clTRID>ABC-12345</clTRID>
      <svTRID>100032</svTRID>
    </trID>
  </response>
</epp>

```

3.4 Domain update

Aim:	To update one or more of the following details registered for a domain name: registrant, admin-c, tech-c, name server, token and DNSSEC data. Placing and managing of the following client-states: clientHold, clientDeleteProhibited, clientTransferProhibited, clientUpdateProhibited en clientRenewProhibited.
Requirements:	Domain name, known contact handle and/or a name server known in the DRS and/or DNSSEC data Optional: reference number
Condition:	Registrant's consent (if another handle is to be linked to the role of 'registrant')
Outcome:	Updated domain name registration

EPP command

Tag	Description	Occurrence min-max	Notes
<epp>		1	
<command>		1	
<update>		1	
<name>	Domain name	1	
<add>		0-1	At least one of the following elements must be present: <add>, <rem> or <chg>.
<ns>		0-1	
<hostObj>	Names of the authoritative name servers	1-*	The registry has set a maximum of 13 ops.
<hostAttr>			Not used.
<contact>	Contacts' handles	0-*	Contains mandatory attribute 'type'; the registry supports only the types "admin" and "tech". The registry applies the following additional rules: - minimum of 1 and maximum of 1 "admin" - minimum of 1 "tech" These rules must still be met after the update.
<status>	Client status	0-11	
<rem>		0-1	
<ns>		0-1	

<hostObj>	Names of the authoritative name servers	1-*	The registry has set a maximum of 13 ops.
<hostAttr>			Not used.
<contact>	Contacts' handles	0-*	Contains mandatory attribute 'type'; the registry supports only the types "admin" and "tech". The registry applies the following additional rules: - minimum of 1 and maximum of 1 "admin" - minimum of 1 "tech" These rules must still be met after the update.
<status>	Client status	0-11	
<chg>		0-1	
<registrant>	Registrant's handle	0-1	The registry has made this element mandatory if the <chg> element is used.
<authInfo>		0-1	Not used.
<extension>		0-1	
secDNS:update		1	
secDNS:chg		0-1	
secDNS:maxSigLife		0-1	Not used.
secDNS:rem			
secDNS:all		0-1	
secDNS:maxSigLife		0-1	Not used.
secDNS:dsData		0-*	Not used.
...			Everything under dsData not used.
secDNS:keyData		0-*	
secDNS:flags	Flag value for this resource record	1	256 or 257
secDNS:protocol	Protocol	1	Fixed value: 3.
secDNS:alg	Algorithm used to generate the public key	1	See the domain_model for details of the supported algorithms.
secDNS:pubKey	Public key	1	In base64 code.
secDNS:add		0-1	
secDNS:dsData		0-*	Not used.
...			Everything under dsData not used.
secDNS:keyData		1-*	
secDNS:flags	Flag value for this resource record	1	256 or 257
secDNS:protocol	Protocol	1	Fixed value: 3.
secDNS:alg	Algorithm used to generate the public key	1	See the domain_model for details of the supported algorithms.
secDNS:pubKey	Public key	1	In base64 code.
<clTRID>	Registrar's transaction ID	0-1	

Example EPP command

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<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>domlimev.amsterdam</domain:name>
        <domain:add>
          <domain:ns>
            <domain:hostObj>ns2.domlimev.amsterdam</domain:hostObj>
          </domain:ns>
          <domain:contact type="tech">TST000504-DWDNR</domain:contact>
        </domain:add>
        <domain:rem>
          <domain:ns>
            <domain:hostObj>ns1.domlimev.amsterdam</domain:hostObj>
          </domain:ns>
        </domain:rem>
      </domain:update>
    </update>
  </command>
</epp>
```

```

    <domain:chg>
      <domain:registrant>TST000504-DWDNR</domain:registrant>
    </domain:chg>
  </domain:update>
</update>
<extension>
  <secDNS:update
    xmlns:secDNS="urn:ietf:params:xml:ns:secDNS-1.1">
    <secDNS:rem>
      <secDNS:keyData>
        <secDNS:flags>257</secDNS:flags>
        <secDNS:protocol>3</secDNS:protocol>
        <secDNS:alg>1</secDNS:alg>
        <secDNS:pubKey>AQPJ///4QQQ</secDNS:pubKey>
      </secDNS:keyData>
    </secDNS:rem>
    <secDNS:add>
      <secDNS:keyData>
        <secDNS:flags>257</secDNS:flags>
        <secDNS:protocol>3</secDNS:protocol>
        <secDNS:alg>1</secDNS:alg>
        <secDNS:pubKey>AQPJ///4Q==</secDNS:pubKey>
      </secDNS:keyData>
    </secDNS:add>
  </secDNS:update>
</extension>
<clTRID>500100-002</clTRID>
</command>
</epp>

```

Example EPP command for deleting all DNSSEC data

```

<?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">
  <command>
    <update>
      <domain:update
        xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
        <domain:name>example.com</domain:name>
      </domain:update>
    </update>
    <extension>
      <secDNS:update
        xmlns:secDNS="urn:ietf:params:xml:ns:secDNS-1.1">
        <secDNS:rem>
          <secDNS:all>true</secDNS:all>
        </secDNS:rem>
      </secDNS:update>
    </extension>
    <clTRID>ABC-12345</clTRID>
  </command>
</epp>

```

Response message

See subsection [1.6 Standard response messages](#).

Example response message (transaction successful)

```

<?xml version="1.0" encoding="utf-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">

```

```

<response>
  <result code="1000">
    <msg>The domainname has been changed.</msg>
  </result>
  <trID>
    <clTRID>500100-002</clTRID>
    <svTRID>100010</svTRID>
  </trID>
</response>
</epp>

```

3.5 Domain delete

The 'domain delete' is used to delete a domain name from the DRS. Following deletion, the status of the domain name becomes *In quarantine* for the first forty days, and then *Available*.

EPP command

Tag	Description	Occurrence min-max	Notes
<epp>		1	
<command>		1	
<delete>		1	
<name>	Domain name	1	
<clTRID>	Registrar's transaction ID	0-1	

Example EPP command

```

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <command>
    <delete>
      <domain:delete
        xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
          <domain:name>domain100.amsterdam</domain:name>
        </domain:delete>
      </delete>
      <clTRID>TestVWDNC10T20</clTRID>
    </command>
  </epp>

```

Response message

See subsection [1.6 Standard response messages](#).

Example response message (transaction successful)

```

<?xml version="1.0" encoding="utf-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000">
      <msg>The domain name has been deleted.</msg>
    </result>
    <trID>
      <clTRID>TestVWDNC10T20</clTRID>
      <svTRID>100044</svTRID>
    </trID>
  </response>
</epp>

```

Example response message (transaction unsuccessful)

```
<?xml version="1.0" encoding="utf-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0" xmlns:sidn-ext-
epp="http://rxsd.domain-registry.nl/sidn-ext-epp-1.0">
  <response>
    <result code="2304">
      <msg>This transaction is incompatible with the domain name's current
status.</msg>
    </result>
    <extension>
      <sidn-ext-epp:ext>
        <sidn-ext-epp:response>
          <sidn-ext-epp:msg field="" code="C0001b"> This transaction is
incompatible with the domain name's current status.</sidn-ext-epp:msg>
        </sidn-ext-epp:response>
      </sidn-ext-epp:ext>
    </extension>
    <trID>
      <clTRID>TestVWDNC10T30</clTRID>
      <svTRID>100045</svTRID>
    </trID>
  </response>
</epp>
```

3.6 Domain renew

The 'Renew' command is used by the managing registrar to extend a domain name's registration period.

The following rules apply:

- A request to renew a domain name should include the 'Period' parameter, specifying the number of years for which the registration is to be extended. If no period is given, the system will automatically renew the registration for one year.
- A request to renew a domain name has to include the current expiration date, so that, if repeated attempts are made to submit a Domain renew command, the registration period is not extended several times.
- The system renews the domain name's registration by the length of time specified by the registrar. If the renewal is successful, the system states the new expiration date in the response message.
- The sum of the specified renewal period plus the remaining registration period may not exceed ten years. It has been agreed by Verisign, DOC and ICANN that the maximum registration period for a domain name should be ten years. An attempt to establish a registration period exceeding ten years will be rejected by a response message containing an error code. If, for example, the current registration period still has eighteen months to run and an attempt is made to renew the registration for nine years, the application will be rejected, since processing of the renewal would result in a registration period of ten year and six months, which exceeds the maximum permitted period of ten years.

EPP command

Tag	Description	Occurrence min-max	Notes
<epp>		1	
<command>		1	
<renew>		1	
<name>	Domain name	1	
<curExpDate>	Current expiration date	1	Current expiration date of the domain name (yyyy-

			mm-dd).
<period>		0-1	Optional
<clTRID>	Registrar's transaction ID	0-1	

Example EPP command

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<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>domain100-renew.amsterdam</domain:name>
        <domain:curExpDate>2012-01-01</domain:curExpDate>
        <domain:period unit="y">1</domain:period>
      </domain:renew>
    </renew>
    <clTRID>TestVWDNC10T20</clTRID>
  </command>
</epp>
```

Response message

See subsection [1.6 Standard response messages](#).

The following additional tags are used:

Tag	Description	Occurrence min-max	Notes
<resData>		1	
<renData>		1	
<name>	Domain name	1	
<exDate>	Expiration date	1	New expiration date of the domain name following renewal.

Example response message (transaction successful)

```
<?xml version="1.0" encoding="utf-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000">
      <msg>The domain name has been renewed.</msg>
    </result>
  <resData>
    <domain:renData>
      <domain:name>domain100-renew.amsterdam</domain:name>
      <domain:exDate>2016-02-06T12:25:25.000Z</domain:exDate>
    </domain:renData>
  </resData>
  <trID>
    <clTRID>TestVWDNC10T20</clTRID>
    <svTRID>100044</svTRID>
  </trID>
</response>
</epp>
```

Example response message (transaction unsuccessful)

```
<?xml version="1.0" encoding="utf-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0" xmlns:sidn-ext-
epp="http://rxsd.domain-registry.nl/sidn-ext-epp-1.0">
```

```

<response>
  <result code="2308">
    <msg>Validation of the transaction failed.</msg>
  </result>
  <extension>
    <sidn-ext-epp:ext>
      <sidn-ext-epp:response>
        <sidn-ext-epp:msg code="C0150" field="">The specified expiration
date does not correspond with the domain name's current expiration
date.</sidn-ext-epp:msg>
      </sidn-ext-epp:response>
    </sidn-ext-epp:ext>
  </extension>
  <trID>
    <clTRID>ABC-12345</clTRID>
    <svTRID>100061</svTRID>
  </trID>
</response>
</epp>

```

3.7 Domain update (op = restore)

The 'Domain update' (op = restore) command is used to undo the deletion of a domain name. The command can be submitted only by the registrar that deleted the domain name in question.

EPP command

Tag	Description	Occurrence min-max	Notes
<epp>		1	
<command>		1	
<update>		1	
<name>	Domain name	1	
<chg>		1	
<extension>			
<command>		1	
<restore>		1	Contains the mandatory 'op' attribute with the value "report"
<report>		1	
<preData>		1	
<postData>		1	
<delTime>	Date	1	
<resTime>	Date	1	
<statement>		2	
<other>		0-1	
<clTRID>	Registrar's transaction ID	0-1	

Example EPP 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>
        <domain:update
          xmlns:domain="urn:ietf:params:xml:ns:domain-1.0"

```

```

        xsi:schemaLocation="urn:ietf:params:xml:ns:domain-1.0
        domain-1.0.xsd">
        <domain:name>doris.amsterdam</domain:name>
        <domain:chg/>
    </domain:update>
</update>
<extension>
    <rgp:update xmlns:rgp="urn:ietf:params:xml:ns:rgp-1.0"
        xsi:schemaLocation="urn:ietf:params:xml:ns:rgp-1.0
        rgp-1.0.xsd">
    <rgp:restore op="report">
        <rgp:report>
            <rgp:preData>Pre-delete registration data goes here.
            Both XML and free text are allowed.</rgp:preData>
            <rgp:postData>Post-restore registration data goes here.
            Both XML and free text are allowed.</rgp:postData>
            <rgp:delTime>2003-07-10T22:00:00.0Z</rgp:delTime>
            <rgp:resTime>2003-07-20T22:00:00.0Z</rgp:resTime>
            <rgp:resReason>Registrant error.</rgp:resReason>
            <rgp:statement>This registrar has not restored the
            Registered Name in order to assume the rights to use
            or sell the Registered Name for itself or for any
            third party.</rgp:statement>
            <rgp:statement>The information in this report is
            true to best of this registrar's knowledge, and this
            registrar acknowledges that intentionally supplying
            false information in this report shall constitute an
            incurable material breach of the
            Registry-Registrar Agreement.</rgp:statement>
            <rgp:other>Supporting information goes
            here.</rgp:other>
        </rgp:report>
    </rgp:restore>
</rgp:update>
</extension>
    <clTRID>ABC-12345</clTRID>
</command>
</epp>

```

Response message

See subsection [1.6 Standard response messages](#).

Example response message (transaction successful)

```

<?xml version="1.0" encoding="utf-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
    <response>
        <result code="1000">
            <msg>Deletion of the domain name has been reversed.</msg>
        </result>
        <trID>
            <clTRID>ABC-12345</clTRID>
            <svTRID>100068</svTRID>
        </trID>
    </response>
</epp>

```

Example response message (transaction unsuccessful)

```

<?xml version="1.0" encoding="utf-8"?>

```

```

<epp xmlns="urn:ietf:params:xml:ns:epp-1.0" xmlns:sidn-ext-
epp="http://rxsd.domain-registry.nl/sidn-ext-epp-1.0"
xmlns:rgp="urn:ietf:params:xml:ns:rgp-1.0">
  <response>
    <result code="2308">
      <msg>Validation of the transaction failed.</msg>
    </result>
    <extension>
      <sidn-ext-epp:ext>
        <sidn-ext-epp:response>
          <sidn-ext-epp:msg code="C0092" field="Message body">Either the
status of the specified domain name is not 'pendingDelete', or the
transaction request is currently being assessed, because the domain name is
subject to a limitation.</sidn-ext-epp:msg>
        </sidn-ext-epp:response>
      </sidn-ext-epp:ext>
    </extension>
    <trID>
      <clTRID>ABC-12345</clTRID>
      <svTRID>100070</svTRID>
    </trID>
  </response>
</epp>

```

3.8 Domain transfer (op = “query”)

The 'Domain transfer' (op = “query”) command is used to check the current status of a domain name's transfer. The command may be given by the party that most recently requested the domain name's transfer or by the releasing registrar in question, or by another registrar that provides valid Auth info.

The command may be given in respect of a domain name whose status is 'Pending transfer'; or a domain name whose transfer has been approved, undone, rejected or automatically accepted.

EPP command

Tag	Description	Occurrence min-max	Notes
<epp>		1	
<command>		1	
<transfer>		1	Contains the mandatory 'op' attribute with the value “query”
<name>	Domain name whose most recent transfer status is being queried	1	
<authInfo>		0-1	Not used.
<clTRID>		0-1	

Example EPP command

```

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<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>epptestdomein.amsterdam</domain:name>
      </domain:transfer>
    </transfer>
    <clTRID>CHKTEST1</clTRID>
  </command>

```

</epp>

Response message

For the full response message, see subsection [1.6 Standard response messages](#). The following additional tags are used:

Tag	Description	Occurrence min-max	Notes
<resData>		1	
<trnData>		1	
<name>	Domain name	1	
<trStatus>	Status of the transfer	1	
<reID>	Party requesting the transfer	1	
<reDate>	Date transfer requested	1	
<acID>	Releasing registrar	1	
<acDate>	Date and time that the transfer was effected or will be effected	1	
<exDate>		0-1	Not used.

Example response message

```
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
  <response>
    <result code="1000">
      <msg>The status of the domain name transfer has been checked..</msg>
    </result>
    <resData>
      <domain:trnData>
        <domain:name>epptestdomain.amsterdam</domain:name>
        <domain:trStatus>pending</domain:trStatus>
        <domain:reID>300300</domain:reID>
        <domain:reDate>2009-10-16T09:56:15.656Z</domain:reDate>
        <domain:acID>300100</domain:acID>
        <domain:acDate>2009-10-16T09:56:15.656Z</domain:acDate>
      </domain:trnData>
    </resData>
    <trID>
      <clTRID>CHKTEST1</clTRID>
      <svTRID>5BF24F8C-9D47-F2C6-7F74-2895EF2C2539</svTRID>
    </trID>
  </response>
</epp>
```

3.9 Domain transfer (op = “request”)

Aim: To transfer a domain name from one registrar to another
Requirements: Domain name, token
Optional: reference number
Condition: Token from the releasing registrar
Outcome: The domain name is transferred

EPP command

Tag	Description	Occurrence min-max	Notes
<epp>		1	

<command>		1	
<transfer>		1	Contains the mandatory 'op' attribute with the value "request".
<name>	Domain name whose transfer is requested	1	
<period>	Period by which the registration is to be extended following approval of the transfer	0-1	
<authInfo>		0-1	
<pw>	Token for the domain name	1	Optional 'roid' attribute not used.
<clTRID>		0-1	

Example EPP command

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<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>domaintransfer31.amsterdam</domain:name>
        <domain:authInfo>
          <domain:pw>transfer31</domain:pw>
        </domain:authInfo>
      </domain:transfer>
    </transfer>
    <clTRID>C0101C10T10</clTRID>
  </command>
</epp>
```

Response message

For the full response message, see subsection [1.6 Standard response messages](#). The following additional tags are used:

Tag	Description	Occurrence min-max	Notes
<resData>		1	
<trnData>		1	
<name>	Domain name	1	
<trStatus>	Status of the transfer	1	
<relID>	Party requesting the transfer	1	
<reDate>	Date of the transfer request	1	
<acID>	Releasing registrar	1	
<acDate>	Date and time that the transfer was effected or will be effected	1	
<exDate>		0-1	
<extension>		0-1	
<ext>		1-*	
<trnData>		1	
<pw>	New token	1	Optional 'roid' attribute not used.

Example response message (transaction successful)

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
  xmlns:domain="urn:ietf:params:xml:ns:domain-1.0" xmlns:sidn-ext-
  epp="http://rxsd.domain-registry.nl/sidn-ext-epp-1.0">
  <response>
    <result code="1001">
      <msg>Transfer of the domain name is in progress, subject to the
        mandatory grace period.</msg>
```

```

</result>
<resData>
  <domain:trnData>
    <domain:name>domeinnaam38.amsterdam</domain:name>
    <domain:trStatus>pending</domain:trStatus>
    <domain:reID>DEEL2</domain:reID>
    <domain:reDate>2013-06-21T14:23:20.000Z</domain:reDate>
    <domain:acID>DEEL1</domain:acID>
    <domain:acDate>2013-06-21T14:38:20.000Z</domain:acDate>
    <domain:exDate>2014-06-19T08:17:37.000Z</domain:exDate>
  </domain:trnData>
</resData>
<extension>
  <sidn-ext-epp:ext>
    <sidn-ext-epp:response/>
  </sidn-ext-epp:ext>
</extension>
<trID>
  <clTRID>C0101C10T10</clTRID>
  <svTRID>100281</svTRID>
</trID>
</response>
</epp>

```

3.10 Domain transfer (op = “cancel”)

A domain transfer cancellation transaction requires approval by the registrar that requested the transfer.

EPP command

Tag	Description	Occurrence min-max	Notes
<epp>		1	
<command>		1	
<transfer>		1	Contains the mandatory 'op' attribute with the value “cancel”.
<name>	Domain name whose ongoing transfer is to be cancelled	1	
<period>		0-1	Not used.
<authInfo>		0-1	Not used.
<clTRID>		0-1	

Example EPP command

```

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<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>epptestdomein.amsterdam</domain:name>
      </domain:transfer>
    </transfer>
    <clTRID>CHKTEST1</clTRID>
  </command>
</epp>

```

Response message

For the full response message, see subsection [1.6 Standard response messages](#). The following additional tags are used:

Tag	Description	Occurrence min-max	Notes
<resData>		1	
<trnData>		1	
<name>	Domain name	1	
<trStatus>	Status of the transfer	1	
<reID>	Party requesting the transfer	1	
<reDate>	Date of the transfer request	1	
<acID>	Releasing registrar	1	
<acDate>	Date and time that the transfer was effected or will be effected	1	
<exDate>		0-1	Not used.

Example response message

```
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
  <response>
    <result code="1000">
      <msg>Transfer of the domain name has been cancelled.</msg>
    </result>
    <resData>
      <domain:trnData>
        <domain:name>epptestdomein.amsterdam</domain:name>
        <domain:trStatus>pending</domain:trStatus>
        <domain:reID>300300</domain:reID>
        <domain:reDate>2009-10-16T09:54:34.265Z</domain:reDate>
        <domain:acID>300100</domain:acID>
        <domain:acDate>2009-10-16T09:54:34.265Z</domain:acDate>
      </domain:trnData>
    </resData>
    <trID>
      <clTRID>CHKTEST1</clTRID>
      <svTRID>CHKTEST2</svTRID>
    </trID>
  </response>
</epp>
```

3.11 Domain transfer (op = “approve”)

A domain transfer requires approval by the releasing registrar. Upon successful approval of a transfer request, the domain name in question is transferred from the releasing registrar to the requesting registrar and the registration period is extended by one year. The status of the domain name also reverts to 'OK'. Following the transfer, the requesting registrar has to update the registration to reflect the correct name servers and status settings.

EPP command

Tag	Description	Occurrence min-max	Notes
<epp>		1	
<command>		1	
<transfer>		1	Contains the mandatory 'op' attribute with the value

			"approve".
<name>	Domain name whose transfer is approved	1	
<period>		0-1	Not used.
<authInfo>		0-1	Not used.
<clTRID>		0-1	

Example EPP command

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<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>domaintransfer36.amsterdam</domain:name>
      </domain:transfer>
    </transfer>
    <clTRID>GLVDC10T10</clTRID>
  </command>
</epp>
```

Response message

For the full response message, see subsection [1.6 Standard response messages](#). The following additional tags are used:

Tag	Description	Occurrence min-max	Notes
<resData>		1	
<trnData>		1	
<name>	Domain name	1	
<trStatus>	Status of the transfer	1	
<reID>	Party requesting the transfer	1	
<reDate>	Date of the transfer request	1	
<acID>	Releasing registrar	1	
<acDate>	Date and time that the transfer was effected or will be effected	1	
<exDate>		0-1	

Example response message (transaction successful)

```
<?xml version="1.0" encoding="utf-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
  xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
  <response>
    <result code="1000">
      <msg>Transfer of the domain name has been approved.</msg>
    </result>
    <resData>
      <domain:trnData>
        <domain:name>domaintransfer36.amsterdam</domain:name>
        <domain:trStatus>pending</domain:trStatus>
        <domain:reID>104000</domain:reID>
        <domain:reDate>2009-10-29T10:54:28.000Z</domain:reDate>
        <domain:acID>102000</domain:acID>
        <domain:acDate>2009-11-03T10:54:28.000Z</domain:acDate>
      </domain:trnData>
      <domain:exDate>2010-06-19T08:17:37.000Z</domain:exDate>
    </resData>
  </response>
</epp>
```

```

    <trID>
      <clTRID>GLVDC10T10</clTRID>
      <svTRID>100001</svTRID>
    </trID>
  </response>
</epp>

```

3.12 Domain transfer (op = “reject”)

The 'Transfer reject' command is used by a releasing registrar to reject a requested transfer.

EPP command

Tag	Description	Occurrence min-max	Notes
<epp>		1	
<command>		1	
<transfer>		1	Contains the mandatory 'op' attribute with the value “reject”.
<name>	Domain name whose transfer is rejected	1	
<period>		0-1	Not used.
<authInfo>		0-1	Not used.
<clTRID>		0-1	

Example EPP command

```

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<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>domaintransfer36.amsterdam</domain:name>
      </domain:transfer>
    </transfer>
    <clTRID>GLVDC10T10</clTRID>
  </command>
</epp>

```

Response message

For the full response message, see subsection [1.6 Standard response messages](#). The following additional tags are used:

Tag	Description	Occurrence min-max	Notes
<resData>		1	
<trnData>		1	
<name>	Domain name	1	
<trStatus>	Status of the transfer	1	
<relID>	Party requesting the transfer	1	
<reDate>	Date of the transfer request	1	
<acID>	Releasing registrar	1	
<acDate>	Date and time that the transfer was effected or will be effected	1	
<exDate>		0-1	

Example response message (transaction successful)

```

<?xml version="1.0" encoding="utf-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
  <response>
    <result code="1000">
      <msg>Transfer of the domain name has been rejected.</msg>
    </result>
    <resData>
      <domain:trnData>
        <domain:name>domaintransfer36.amsterdam</domain:name>
        <domain:trStatus>pending</domain:trStatus>
        <domain:reID>104000</domain:reID>
        <domain:reDate>2009-10-29T10:54:28.000Z</domain:reDate>
        <domain:acID>102000</domain:acID>
        <domain:acDate>2009-11-03T10:54:28.000Z</domain:acDate>
        <domain:exDate>2014-11-03T10:54:28.000Z</domain:exDate>
      </domain:trnData>
    </resData>
    <trID>
      <clTRID>GLVDC10T10</clTRID>
      <svTRID>100001</svTRID>
    </trID>
  </response>
</epp>

```

3.13 Domain transfer token reminder

EPP command

N/a: Response only.

Example EPP command

N/a

Response message

For the full response message, see subsection [1.6 Standard response messages](#). The following additional tags are used:

Tag	Description	Occurrence min-max	Notes
<extension>		0-1	
<ext>		1-*	
<trnData>		1	
<domainname>	Domain name that the message relates to	0-1	
<requestor>	Party requesting the transfer escalation	0-1	
<requestDate>	Date of the transfer escalation request	0-1	
<supplyDate>	Date by which the token must be given to the registrant	0-1	

Example response message

```

<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
xmlns:domain="urn:ietf:params:xml:ns:domain-1.0" xmlns:sidn-ext-
epp="http://rxdn.domain-registry.nl/sidn-ext-epp-1.0">
  <response>
    <result code="1000">
      <msg>Transfer token issue reminder.</msg>
    </result>
    <extension>
      <sidn-ext-epp:ext>
        <sidn-ext-epp:trnData>
          <sidn-ext-epp:domainname>domaintransfer36.amsterdam</sidn-ext-
epp:domainname>
          <sidn-ext-epp:requestor>Test registrar</sidn-ext-epp:requestor>
          <sidn-ext-epp:requestDate>2009-10-08T10:34:32.000Z</sidn-ext-
epp:requestDate>
          <sidn-ext-epp:supplyDate>2009-10-08T10:34:32.000Z</sidn-ext-
epp:supplyDate>
        </sidn-ext-epp:trnData>
      </sidn-ext-epp:ext>
    </extension>
    <trID>
      <svTRID>5BF24F8C-9D47-F2C6-7F74-2895EF2C2539</svTRID>
    </trID>
  </response>
</epp>

```

3.14 Key relay

EPP command

Tag	Description	Occurrence min-max	Notes
<epp>		1	
<extension>		1	
<command>		1	
<keyrelay>		1	
<name>	Domain name	1	
<keydata>	Key material to be exchanged	1-	SIDN has set a maximum of 4
<secDNS:flags>	Flag value for this Resource Record	1	256 of 257
<secDNS:protocol>	Protocol	1	
<secDNS:alg>	Algorithm used to create the public key	1	Only algorithms published by IANA are acceptable.
<secDNS:pubKey>	Public key	1	In base64 coding
<authInfo>		1	
<domain:pw>	Token		
<expiry>		0-1	
<relative/absolute>	Validity of key material. Optional values: relative (duration-type) and absolute (dateTime)	1	

Example EPP command

```

<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
      xmlns:keyrelay="urn:ietf:params:xml:ns:keyrelay-1.0"
      xmlns:secDNS="urn:ietf:params:xml:ns:secDNS-1.1"
      xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
  <command>
    <create>
      <keyrelay:create>
        <keyrelay:name>vhdnc10t90.nl</keyrelay:name>
        <keyrelay:authInfo>
          <domain:pw>vhdnc10t90</domain:pw>
        </keyrelay:authInfo>
        <keyrelay:keyRelayData>
          <keyrelay:keyData>
            <secDNS:flags>256</secDNS:flags>
            <secDNS:protocol>3</secDNS:protocol>
            <secDNS:alg>8</secDNS:alg>
            <secDNS:pubKey>a2x1</secDNS:pubKey>
          </keyrelay:keyData>
          <keyrelay:expiry>
            <keyrelay:relative>P1M13D</keyrelay:relative>
          </keyrelay:expiry>
        </keyrelay:keyRelayData>
        <keyrelay:keyRelayData>
          <keyrelay:keyData>
            <secDNS:flags>256</secDNS:flags>
            <secDNS:protocol>3</secDNS:protocol>
            <secDNS:alg>8</secDNS:alg>
            <secDNS:pubKey>a2x1aQ==</secDNS:pubKey>
          </keyrelay:keyData>
        </keyrelay:keyRelayData>
        <keyrelay:keyRelayData>
          <keyrelay:keyData>
            <secDNS:flags>256</secDNS:flags>
            <secDNS:protocol>3</secDNS:protocol>
            <secDNS:alg>8</secDNS:alg>
            <secDNS:pubKey>bWFyY2lzdGhlYmVzdA==</secDNS:pubKey>
          </keyrelay:keyData>
          <keyrelay:expiry>
            <keyrelay:absolute>2017-09-04T22:01:00.0Z</keyrelay:absolute>
          </keyrelay:expiry>
        </keyrelay:keyRelayData>
      </keyrelay:create>
    </create>
    <clTRID>ABC-12345</clTRID>
  </command>
</epp>

```

Response message

Tag	Description	Occurrence min-max	notes
<resData>		1	
<response>		1	
<panData>		1	
<name>	Domain name	1	
@name:paResult		1	
<paDate>	Date	1	
<keyData>	Key material to be exchanged	1-***	SIDN has set a maximum of 4
<secDNS:flags>	Flag value for this Resource	1	256 of 257

	Record		
<secDNS:protocol>	Protocol	1	Fixed value 3
<secDNS:alg>	Algorithm used to create the public key	1	Only algorithms published by IANA are acceptable
<secDNS:pubKey>	Public key	1	In base64 coding
<authInfo>		1	
<domain:pw>	Token	1	
<expiry>		0-1	
<relative/absolute>	Validity of key material. Optional values: relative (duration-type) and absolute (dateTime)	1	
<reld>	Registrar that made the key relay request.	1	
<acld>	Managing registrar for the domain name	1	

Example POLL message

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
xmlns:keyrelay="urn:ietf:params:xml:ns:keyrelay-1.0"
xmlns:secDNS="urn:ietf:params:xml:ns:secDNS-1.1"
xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
  <response>
    <result code="1301">
      <msg>The message has been picked up. Please confirm receipt to remove
the message from the queue.</msg>
    </result>
    <msgQ id="1607643" count="1">
      <qDate>2013-05-08T11:22:40.000Z</qDate>
      <msg>1052 Keyrelay bericht voor domeinnaam relay-test.nl.</msg>
    </msgQ>
    <resData>
      <keyrelay:response>
        <keyrelay:panData>
          <keyrelay:name paResult="true">relay-test.nl</keyrelay:name>
          <keyrelay:paDate>2013-05-08T11:22:40.000Z</keyrelay:paDate>
          <keyrelay:keyData>
            <secDNS:flags>257</secDNS:flags>
            <secDNS:protocol>3</secDNS:protocol>
            <secDNS:alg>8</secDNS:alg>
          </keyrelay:keyData>
          <keyrelay:authInfo>
            <domain:pw>J3fGTd3vEFWW</domain:pw>
          </keyrelay:authInfo>
          <keyrelay:expiry>
            <keyrelay:relative>P1M13D</keyrelay:relative>
          </keyrelay:expiry>
          <keyrelay:reID>TEST1</keyrelay:reID>
          <keyrelay:acID>TEST2</keyrelay:acID>
        </keyrelay:panData>
      </keyrelay:response>
    </resData>
  </trID>
  <clTRID>ABC-12345</clTRID>
  <svTRID>D5A8D5FC-B89D-B23B-39B2-04E341C05E7E</svTRID>
```

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

Chapter 4

EPP - Contacts

This section describes the following EPP forms:

- [4.1 Contact check](#)
- [4.2 Contact info](#)
- [4.3 Contact create](#)
- [4.4 Contact update](#)
- [4.5 Contact delete](#)

4.1 Contact check

EPP command

Tag	Description	Occurrence min-max	Notes
<epp>		1	
<command>		1	
<check>		1	
<id>	One or more contacts' handles whose availability is to be checked	1-*	
<clTRID>	Registrar's transaction ID	0-1	

Example EPP command

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <command>
    <check>
      <contact:check
        xmlns:contact="urn:ietf:params:xml:ns:contact-1.0">
        <contact:id>TST000501-DWDNR</contact:id>
      </contact:check>
    </check>
    <clTRID>ABC-12345</clTRID>
  </command>
</epp>
```

Response message

For the full response message, see subsection [1.6 Standard response messages](#). The following additional tags are used:

Tag	Description	Occurrence min-max	Notes
<resData>		1	
<chkData>		1	

<cd>		1-*	
<id>	Contact's handle	1	Contains 'avail' attribute indicating the availability of the contact: "true" indicates that the contact does not yet exist on the system; "false" indicates that the contact does already exist on the system.
<reason>		0-1	Not used.

Example response message (transaction successful)

```
<?xml version="1.0" encoding="utf-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
xmlns:contact="urn:ietf:params:xml:ns:contact-1.0">
  <response>
    <result code="1000">
      <msg>The availability of the contact person has been checked.</msg>
    </result>
    <resData>
      <contact:chkData>
        <contact:cd>
          <contact:id avail="false">TST000501-DWDNR</contact:id>
        </contact:cd>
      </contact:chkData>
    </resData>
    <trID>
      <clTRID>ABC-12345</clTRID>
      <svTRID>DA18E6F6-D725-5453-D8FF-043D8DC33DE9</svTRID>
    </trID>
  </response>
</epp>
```

Example response message (transaction unsuccessful)

```
<?xml version="1.0" encoding="utf-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0" xmlns:sidn-ext-
epp="http://rxsd.domain-registry.nl/sidn-ext-epp-1.0">
  <response>
    <result code="2400">
      <msg>Validation of the transaction failed.</msg>
    </result>
    <extension>
      <sidn-ext-epp:ext>
        <sidn-ext-epp:response>
          <sidn-ext-epp:msg field="" code="C0115">The specified handle is
not associated with this account.</sidn-ext-epp:msg>
        </sidn-ext-epp:response>
      </sidn-ext-epp:ext>
    </extension>
    <trID>
      <clTRID>ABC-12345</clTRID>
      <svTRID>0ACC9F81-11F9-5B1F-84C4-8F03D78081F7</svTRID>
    </trID>
  </response>
</epp>
```

4.2 Contact info

Aim:	To look up the details of a contact
Requirements:	Contact
Condition:	Contact must be managed by the enquiring registrar
Outcome::	Details of the contact are supplied

The 'Contact info' command is used to look up the details of a contact. You can only look up the details of your own registered contacts, not other registrars' contacts.

EPP command

Tag	Description	Occurrence min-max	Notes
<epp>		1	
<command>		1	
<info>		1	
<id>	Handle of the queried contact	1	
<authInfo>		0-1	Not used.
<clTRID>	Registrar's transaction ID	0-1	

Example EPP command

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<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>TST000033-DEMEE</contact:id>
      </contact:info>
    </info>
    <clTRID>ABC-12345</clTRID>
  </command>
</epp>
```

Response message

For the full response message, see subsection [1.6 Standard response messages](#). The following additional tags are used:

Tag	Description	Occurrence min-max	Notes
<resData>		1	
<infData>		1	
<id>	Handle of the queried contact	1	
<roid>	Repository Object IDentifier assigned to the object when the object was created	1	
<status>	Contact's status	1-*	The actual status is contained in the 's' attribute.
<postalInfo>		1-2	Only type="loc" is supported.
<name>	Contact's name	1	
<org>	Name of the department that the contact is affiliated to	0-1	
<addr>		1	
<street>	Street	0-3	The registry has set a maximum of 1 op.
<city>	City	1	
<sp>	State or province	0-1	Not used.
<pc>	Postcode	0-1	The registry has made this field mandatory if the country

			code "NL" is used.
<cc>	Country code	1	
<voice>	Phone number	0-1	The registry has made this field mandatory.
<fax>	Fax number	0-1	
<email>	E-mail address	1	
<clID>	Managing registrar	1	
<crID>	Registrar that created the contact	1	
<crDate>	Date that the contact was created	1	
<upID>	Registrar that last updated the contact	0-1	Field must not be included if the contact has not previously been updated.
<upDate>	Date that the contact was last updated	0-1	Field must not be included if the contact has not previously been updated.
<trDate>		0-1	Not used.
<authInfo>		0-1	Not used.
<disclose>		0-1	Optional field to control the public visibility of the included fields: flag 1 means publicly visible; flag 0 means not publicly visible.
<addr>			Field that may or may not be visible in the Whois. Only type="loc" is supported.
<extension>		1	
<ext>		1	
<infData>		1	
<contact>		1	
<legalForm>	Legal form	1	See subsection 1.4.1 for possible values.
<legalFormRegno>	Registration number of the legal form	0-1	
<limited>	Indicates whether the contact has the status 'Limited'	1	"false"

Example response message (transaction successful)

```
<?xml version="1.0" encoding="utf-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
xmlns:contact="urn:ietf:params:xml:ns:contact-1.0" xmlns:sidn-ext-
epp="http://rxsd.domain-registry.nl/sidn-ext-epp-1.0">
  <response>
    <result code="1000">
      <msg>The contact person has been queried.</msg>
    </result>
    <resData>
      <contact:infData>
        <contact:id>TST000033-DEMEE</contact:id>
        <contact:roid>CPN_100134-SIDN</contact:roid>
        <contact:status s="pendingUpdate">linked,
pendingUpdate</contact:status>
        <contact:postalInfo type="loc">
          <contact:name>Jan Otten</contact:name>
          <contact:addr>
            <contact:street>Hoofdstraat 126</contact:street>
            <contact:city>Eindhoven</contact:city>
            <contact:pc>4444EE</contact:pc>
            <contact:cc>NL</contact:cc>
          </contact:addr>
        </contact:postalInfo>
        <contact:voice>+31.0612345678</contact:voice>
        <contact:email>otten@sidn.amsterdam</contact:email>
        <contact:clID>400100</contact:clID>
        <contact:crID>DEMEE</contact:crID>
        <contact:crDate>2009-01-02T00:00:00.000Z</contact:crDate>
      </contact:infData>
      <contact:disclose flag="0">
```

```

        <contact:addr type="loc"/>
    </contact:disclose>
</resData>
<extension>
    <sidn-ext-epp:ext>
        <sidn-ext-epp:infData>
            <sidn-ext-epp:contact>
                <sidn-ext-epp:legalForm>NV</sidn-ext-epp:legalForm>
                <sidn-ext-epp:legalFormRegNo>8764654.0</sidn-ext-
epp:legalFormRegNo>
                <sidn-ext-epp:limited>>false</sidn-ext-epp:limited>
            </sidn-ext-epp:contact>
        </sidn-ext-epp:infData>
    </sidn-ext-epp:ext>
</extension>
<trID>
    <clTRID>ABC-12345</clTRID>
    <svTRID>9B7E2F55-EABA-C6AA-5A6F-A2FBA366A2FE</svTRID>
</trID>
</response>
</epp>

```

Example response message (transaction unsuccessful)

```

<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0" xmlns:sidn-ext-
epp="http://rxd.sld.nu/registry.nl/sidn-ext-epp-1.0">
    <response>
        <result code="2303">
            <msg>The specified contact person is unknown.</msg>
        </result>
        <extension>
            <sidn-ext-epp:ext>
                <sidn-ext-epp:response>
                    <sidn-ext-epp:msg code="F0001" field="Handle">This is not a valid
handle.</sidn-ext-epp:msg>
                    <sidn-ext-epp:msg code="T0002" field="Handle">The specified
handle is unknown.</sidn-ext-epp:msg>
                </sidn-ext-epp:response>
            </sidn-ext-epp:ext>
        </extension>
        <trID>
            <clTRID>ABC-12345</clTRID>
            <svTRID>2DED5F8E-8168-73F7-0E56-24A9A83C6B23</svTRID>
        </trID>
    </response>
</epp>

```

4.3 Contact create

Aim:	To create a new contact
Requirements:	(Organisation) name, legal form, e-mail address, phone number, address, postcode, city and country
Condition:	
Outcome:	A handle, enabling the contact to be used for registrations and updates

In the DRS an individual contact may be used as a registrant, admin-c and/or tech-c. Even if a contact performs several roles, you can nevertheless use the handle for the contact each time. A contact may be a person or a business; however, you must record the contact's legal form in either case. You also have the

option of assigning a reference number (of your own) to the application. If address disclose = J and the registrant is a business, the registrant's address will be shown in the Whois. If address disclose = N and the registrant is a business, the registrant's address will not be shown in the Whois. If the registrant is a person, the registrant's address will not be shown in the Whois.

EPP command

Tag	Description	Occurrence min-max	Notes
<epp>		1	
<command>		1	
<create>		1	
<id>		1	Not used. Must contain at least three characters.
<postalinfo>		1-2	The registry has set a maximum of 1 op. Only type="loc" is supported.
<name>	Name of the contact/organisation	1	
<org>	Name of the department that the contact is affiliated to	0-1	Optional; has no identification value
<addr>		1	
<street>	Street	0-3	The registry has set a maximum of 1 op. The first 'street' tag must not contain a PO Box.
<city>	City	1	
<sp>	State or province	0-1	Not used.
<pc>	Postcode	0-1	The registry has made this field mandatory if the country code "NL" is used. In that case, the postcode must always start with four numeric characters and end with two capital letters (regular expression: "[0-9]{4}[A-Z]{2}").
<cc>	Country code	1	
<voice>	Phone number	0-1	The registry has made this field mandatory. A phone number is a string starting with a '+' followed by the country code, followed by a '.' and then followed by a series of numeric characters being the phone number (regular expression: "(\\+[0-9]{1,3}\\.[0-9]{1,14})?"). The following rules apply to phone numbers with the country code +31: the length of the phone number excluding separators (" ", " " or "-") and excluding the leading zero, must be nine positions (unless it begins with 08 or 09). In the EPP, an optional 'x' attribute is included, but the DRS does not support this.
<fax>	Fax number	0-1	A fax number is a string starting with a '+' followed by the country code, followed by a '.' and then followed by a series of numeric characters being the fax number (regular expression: "(\\+[0-9]{1,3}\\.[0-9]{1,14})?"). The following rules apply to fax numbers with the country code +31: the length of the fax number excluding separators (" ", " " or "-") and excluding the leading zero, must be nine positions (unless it begins with 08 or 09). In the EPP, an optional 'x' attribute is included, but the DRS does not support this.
<email>	E-mail address	1	
<authInfo>		1	Not used.
<disclose>		0-1	Optional field to control the public visibility of the included fields: flag 1 means publicly visible; flag 0 means not publicly visible.
<addr >			Field that may or may not be visible in the Whois. Only type="loc" is supported..
<extension>		1	
<ext>		1	

<create>		1	
<contact>		1	
<legalForm>	Legal form	1	See subsection 1.4.1 for possible values
<legalFormRegno>	Legal form registration number	0-1	
<clTRID>	Registrar's transaction ID	0-1	

Example EPP command

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
  xmlns:sidn-ext-epp="http://rxsd.domain-registry.nl/sidn-ext-epp-1.0">
  <command>
    <create>
      <contact:create
        xmlns:contact="urn:ietf:params:xml:ns:contact-1.0">
        <contact:id>sh8013</contact:id>
        <contact:postalInfo type="loc">
          <contact:name> Harry Jansen</contact:name>
          <contact:org>Afdeling communicatie</contact:org>
          <contact:addr>
            <contact:street>IJsselkade</contact:street>
            <contact:street>100</contact:street>
            <contact:city>Amsterdam</contact:city>
            <contact:sp>Limburg</contact:sp>
            <contact:pc>1234AA</contact:pc>
            <contact:cc>NL</contact:cc>
          </contact:addr>
        </contact:postalInfo>
        <contact:voice>+31.612345678</contact:voice>
        <contact:fax>+31.204578274</contact:fax>
        <contact:email>epptestteam@sidn.amsterdam</contact:email>
        <contact:authInfo>
          <contact:pw>2fooBAR</contact:pw>
        </contact:authInfo>
        <contact:disclose flag="0">
          <contact:addr type="loc"/>
        </contact:disclose>
      </contact:create>
    </create>
    <extension>
      <sidn-ext-epp:ext>
        <sidn-ext-epp:create>
          <sidn-ext-epp:contact>
            <sidn-ext-epp:legalForm>EENMANSZAAK</sidn-ext-epp:legalForm>
            <sidn-ext-epp:legalFormRegNo>8764654.0</sidn-ext-
epp:legalFormRegNo>
          </sidn-ext-epp:contact>
        </sidn-ext-epp:create>
      </sidn-ext-epp:ext>
    </extension>
    <clTRID>ABC-12345</clTRID>
  </command>
</epp>
```

Response message

For the full response message, see subsection [1.6 Standard response messages](#). The following additional tags are used:

Tag	Description	Occurrence min-max	Notes
<creDate>		1	
<id>	The handle generated by the system	1	
<crDate>	Creation date	1	

Example response message (transaction successful)

```
<?xml version="1.0" encoding="utf-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
xmlns:contact="urn:ietf:params:xml:ns:contact-1.0">
  <response>
    <result code="1000">
      <msg>The contact person has been registered.</msg>
    </result>
    <resData>
      <contact:creData>
        <contact:id>HAN000002-TS104</contact:id>
        <contact:crDate>2009-10-23T09:24:48.000Z</contact:crDate>
      </contact:creData>
    </resData>
    <trID>
      <clTRID>ABC-12345</clTRID>
      <svTRID>100030</svTRID>
    </trID>
  </response>
</epp>
```

4.4 Contact update

Aim: To update a contact's details

Requirements: (Organisation) name, legal form, e-mail address, phone number, address, postcode, city and country

Condition: Contact must be managed by the updating registrar

Outcome: Updated contact details

You can update all of a contact's details, regardless of whether the contact is a natural person or a legal entity, unless the contact is linked to a domain name as the registrant. In that case, the contact's identification data (name, legal form and registration number) cannot be updated. If address disclose = J and the registrant is a business, the registrant's address will be shown in the Whois. If address disclose = N and the registrant is a business, the registrant's address will not be shown in the Whois. If the registrant is a person, the registrant's address will not be shown in the Whois.

EPP command

Tag	Description	Occurrence min-max	Notes
<epp>		1	
<command>		1	
<update>		1	
<id>			
<add>		0-1	Not used.
<status>	Client status	1-7	Not used.
<rem>		0-1	Not used.
<status>	Client status	1-7	Not used.
<chg>		0-1	The registry has made this field mandatory. The <chg> element must contain at least one of the elements <postalInfo>, <voice>, <fax>, <e-mail>, <authInfo> and <disclose>. If an 'addr' block field needs to be updated, the whole block must be specified.
<postalInfo>		0-2	The registry has set a maximum of 1 op. Only type="loc" is supported.
<name>		0-1	
<org>		0-1	

<addr>		0-1	
<street>		0-3	The registry has set a maximum of 1 op. The first 'street' tag must not contain a PO Box.
<city>		1	
<sp>		0-1	Not used.
<pc>		0-1	The registry has made this field mandatory if the country code "NL" is used. In that case, the postcode must always start with four numeric characters and end with two capital letters (regular expression: "[0-9]{4}[A-Z]{2}").
<cc>		1	
<voice>		0-1	A phone number is a string starting with a '+' followed by the country code, followed by a '.' and then followed by a series of numeric characters being the phone number (regular expression: "(\\+[0-9]{1,3}\\.[0-9]{1,14})?"). The following rules apply to phone numbers with the country code +31: the length of the phone number excluding separators (".", " " or "-") and excluding the leading zero, must be nine positions (unless it begins with 08 or 09). In the EPP, an optional 'x' attribute is included, but the DRS does not support this.
<fax>		0-1	A fax number is a string starting with a '+' followed by the country code, followed by a '.' and then followed by a series of numeric characters being the fax number (regular expression: "(\\+[0-9]{1,3}\\.[0-9]{1,14})?"). The following rules apply to fax numbers with the country code +31: the length of the fax number excluding separators (".", " " or "-") and excluding the leading zero, must be nine positions (unless it begins with 08 or 09). In the EPP, an optional 'x' attribute is included, but the DRS does not support this.
<email>		0-1	
<disclose>		0-1	Optional field to control the public visibility of the included fields: flag 1 means publicly visible; flag 0 means not publicly visible.
<addr >			Field that may or may not be visible in the Whois. Only type="loc" is supported.
<authInfo>		0-1	Not used.
<extension>		0-1	
<ext>		1	
<infData>		1	
<contact>		1	
<legalForm>	Legal form	1	See subsection 1.4.1 for possible values.
<legalFormRegno>	Legal form registration number	0-1	
<clTRID>	Registrar's transaction ID	0-1	

Example EPP command

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<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>TEA000031-GOEDA</contact:id>
        <contact:chg>
          <contact:postalInfo type="loc">
            <contact:name>Herman de Vries</contact:name>
            <contact:org>Afdeling communicatie</contact:org>
```

```

        <contact:addr>
            <contact:street>Street 1</contact:street>
            <contact:street>Street 2</contact:street>
            <contact:street>Street 3</contact:street>
            <contact:city>Arnhem</contact:city>
            <contact:pc>1000AA</contact:pc>
            <contact:cc>NL</contact:cc>
        </contact:addr>
    </contact:postalInfo>
    <contact:voice>+31.207654321</contact:voice>
    <contact:fax>+31.201234567</contact:fax>
    <contact:email>herman@epptestdomein.amsterdam</contact:email>
</contact:chg>
</contact:update>
</update>
<clTRID>ABC-12345</clTRID>
</command>
</epp>

```

Example EPP command involving the legal form extension for a natural person

```

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0" xmlns:sidn-ext-
epp="http://rxsd.domain-registry.nl/sidn-ext-epp-1.0">
    <command>
        <update>
            <contact:update
                xmlns:contact="urn:ietf:params:xml:ns:contact-1.0">
                <contact:id>TEA000031-GOEDA</contact:id>
                <contact:chg>
                    <contact:postalInfo type="loc">
                        <contact:name>Herman Jansen</contact:name>
                        <contact:org>Afdeling communicatie</contact:org>
                        <contact:addr>
                            <contact:street>Street 1</contact:street>
                            <contact:street>Street 2</contact:street>
                            <contact:street>Street 3</contact:street>
                            <contact:city>Amsterdam</contact:city>
                            <contact:pc>1000AA</contact:pc>
                            <contact:cc>NL</contact:cc>
                        </contact:addr>
                    </contact:postalInfo>
                    <contact:voice>+31.207654321</contact:voice>
                    <contact:fax>+31.201234567</contact:fax>
                    <contact:email>herman@epptestdomein.amsterdam</contact:email>
                </contact:chg>
            </contact:update>
        </update>
        <extension>
            <sidn-ext-epp:ext>
                <sidn-ext-epp:update>
                    <sidn-ext-epp:contact>
                        <sidn-ext-epp:legalForm>PERSOON</sidn-ext-epp:legalForm>
                    </sidn-ext-epp:contact>
                </sidn-ext-epp:update>
            </sidn-ext-epp:ext>
        </extension>
        <clTRID>ABC-12345</clTRID>
    </command>
</epp>

```

Response message

See subsection [1.6 Standard response messages](#).

Example response message (transaction successful)

```
<?xml version="1.0" encoding="utf-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000">
      <msg>The contact person has been changed without consideration.</msg>
    </result>
    <trID>
      <clTRID>ABC-12345</clTRID>
      <svTRID>100006</svTRID>
    </trID>
  </response>
</epp>
```

4.5 Contact delete

Aim: To delete a contact from the DRS

Requirements: Contact

Condition: Contact must not be linked to any domain name and must be managed by the deleting registrar

Outcome: The contact is no longer registered on the in DRS

You can delete contacts that you no longer use from DRS, provided that they are no longer linked to any domain names. Once a contact has been deleted, that contact can no longer be selected/used on web forms and in EPP.

EPP command

Tag	Description	Occurrence min-max	Notes
<epp>		1	
<command>		1	
<delete>		1	
<id>	The handle of the contact to be deleted	1	
<clTRID>	Registrar's transaction ID	0-1	

Example EPP command

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<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>TST000637-DWDNR</contact:id>
      </contact:delete>
    </delete>
    <clTRID>500100-502</clTRID>
  </command>
</epp>
```

Response message

See subsection [1.6 Standard response messages](#).

Example response message (transaction successful)

```
<?xml version="1.0" encoding="utf-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000">
      <msg>The contact person has been deleted.</msg>
    </result>
    <trID>
      <clTRID>500100-502</clTRID>
      <svTRID>100015</svTRID>
    </trID>
  </response>
</epp>
```

Example response message (transaction unsuccessful)

```
<?xml version="1.0" encoding="utf-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0" xmlns:sidn-ext-
epp="http://rxdn.domain-registry.nl/sidn-ext-epp-1.0">
  <response>
    <result code="2305">
      <msg>The contact person cannot be deleted because the person is still
associated with a domain name.</msg>
    </result>
    <extension>
      <sidn-ext-epp:ext>
        <sidn-ext-epp:response>
          <sidn-ext-epp:msg field="" code="C0079b">The contact person
cannot be deleted because the person is still associated with a domain
name.</sidn-ext-epp:msg>
        </sidn-ext-epp:response>
      </sidn-ext-epp:ext>
    </extension>
    <trID>
      <clTRID>500100-502</clTRID>
      <svTRID>100039</svTRID>
    </trID>
  </response>
</epp>
```

Chapter 5

EPP – Name servers

This section describes the following EPP forms:

- [5.1 Host check](#)
- [5.2 Host info](#)
- [5.3 Host create](#)
- [5.4 Host update](#)
- [5.5 Host delete](#)

5.1 Host check

This command is used to check the availability of a name server name (whether a name server with the relevant name can be registered) at the time that the `<check>` is performed.

EPP command

Tag	Description	Occurrence min-max	Notes
<code><epp></code>		1	
<code><command></code>		1	
<code><check></code>		1	
<code><name></code>	One or more name server names, whose availability is to be checked	1-*	
<code><clTRID></code>	Registrar's transaction ID	0-1	

Example EPP command

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <command>
    <check>
      <host:check
        xmlns:host="urn:ietf:params:xml:ns:host-1.0">
        <host:name>ns1.checkhost.amsterdam</host:name>
        <host:name>ns2.checkhost.amsterdam</host:name>
        <host:name>NS3.checkhost.amsterdam</host:name>
        <host:name>ns4.checkhost.amsterdam</host:name>
        <host:name>ns5.checkhost.amsterdam</host:name>
        <host:name>ns6.checkhost.amsterdam</host:name>
        <host:name>ns7.checkhost.amsterdam</host:name>
        <host:name>ns8.checkhost.amsterdam</host:name>
        <host:name>ns9.checkhost.amsterdam</host:name>
        <host:name>ns10.checkhost.amsterdam</host:name>
      </host:check>
    </check>
    <clTRID>HOSTCHECK-DLNTICKET</clTRID>
  </command>
</epp>
```

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

Response message

For the full response message, see subsection [1.6 Standard response messages](#). The following additional tags are used:

Tag	Description	Occurrence min-max	Notes
<resData>		1	
<chkData>		1	
<cd>		1-*	
<name>	Name of the checked name server	1	Contains 'avail' attribute indicating the availability of the name server: "true" indicates that the name server does not yet exist on the system, "false" indicates that the name server does already exist on the system.
<reason>		0-1	Not used.

Example response message (transaction successful)

```
<?xml version="1.0" encoding="utf-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
xmlns:host="urn:ietf:params:xml:ns:host-1.0">
  <response>
    <result code="1000">
      <msg>The availability of the name server has been checked.</msg>
    </result>
    <resData>
      <host:chkData>
        <host:cd>
          <host:name avail="false">ns1.checkhost.amsterdam</host:name>
        </host:cd>
        <host:cd>
          <host:name avail="false">ns2.checkhost.amsterdam</host:name>
        </host:cd>
        <host:cd>
          <host:name avail="false">ns3.checkhost.amsterdam</host:name>
        </host:cd>
        <host:cd>
          <host:name avail="false">ns4.checkhost.amsterdam</host:name>
        </host:cd>
        <host:cd>
          <host:name avail="false">ns5.checkhost.amsterdam</host:name>
        </host:cd>
        <host:cd>
          <host:name avail="true">ns6.checkhost.amsterdam</host:name>
        </host:cd>
        <host:cd>
          <host:name avail="true">ns7.checkhost.amsterdam</host:name>
        </host:cd>
        <host:cd>
          <host:name avail="true">ns8.checkhost.amsterdam</host:name>
        </host:cd>
        <host:cd>
          <host:name avail="true">ns9.checkhost.amsterdam</host:name>
        </host:cd>
        <host:cd>
          <host:name avail="true">ns10.checkhost.amsterdam</host:name>
        </host:cd>
      </host:chkData>
```

```

    </resData>
    <trID>
      <clTRID>HOSTCHECK-DLNTICKET</clTRID>
      <svTRID>283B8DAC-DD5F-1F0E-CC47-CF87E06A9BE6</svTRID>
    </trID>
  </response>
</epp>

```

5.2 Host info

Aim: To look up the details of a name server
Requirements: An existing name server
Condition: The name server must be managed by the enquiring registrar
Outcome: Statement of the details, status and IP addresses of the name server

The 'Host info' command is used to look up the details of a name server that you control.

EPP command

Tag	Description	Occurrence min-max	Notes
<epp>		1	
<command>		1	
<info>		1	
<name>	Name of the queried name server	1	
<clTRID>	Registrar's transaction ID	0-1	

Example EPP command

```

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<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.domain100.amsterdam</host:name>
      </host:info>
    </info>
    <clTRID>ABC-12345</clTRID>
  </command>
</epp>

```

Response message

For the full response message, see subsection [1.6 Standard response messages](#). The following additional tags are used:

Tag	Description	Occurrence min-max	Notes
<resData>		1	
<infData>		1	
<name>	Name of the queried name server	1	
<roid>	Is the Repository Object Identifier assigned to the object when the object was created	1	
<status>	Name server status	1-*	The actual status is contained in the 's' attribute
<addr>	IP address	0-*	Optional 'ip' attribute indicates what type of IP address is specified: "v4" indicates an IPv4 address; "v6" indicates an IPv6 address. If no attribute is included, the default value "v4" is used.

<clID>	Managing registrar	1	
<crID>	Registrar that created the name server	1	
<crDate>	Date that the name server was created	1	
<upID>	Registrar that last updated the name server	0-1	Field must not be included if the name server has not previously been updated
<upDate>	Date that the name server was last updated	0-1	Field must not be included if the name server has not previously been updated
<trDate>	Date that the name server was last transferred	0-1	Name servers cannot be directly transferred, unless the superordinate domain name is being transferred. This field is completed only when the name server is being transferred with its superordinate domain name.
<extension>		0-1	
<ext>		1	
<infData>		1	
<host>			
<limited>	Indicates whether the name server has the status 'Limited'	1	Values: "true" or "false".

Example response message (transaction successful)

```
<?xml version="1.0" encoding="utf-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
xmlns:host="urn:ietf:params:xml:ns:host-1.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:sidn-ext-
epp="http://rxdn.domain-registry.nl/sidn-ext-epp-1.0">
  <response>
    <result code="1000">
      <msg>The name server has been queried.</msg>
    </result>
    <resData>
      <host:infData>
        <host:name>ns1.domain100.amsterdam</host:name>
        <host:roid>NSR_100-SIDN</host:roid>
        <host:status s="ok"/>
        <host:addr ip="v4">1.2.3.0</host:addr>
        <host:clID>100000</host:clID>
        <host:crID>100000</host:crID>
        <host:crDate>2009-06-10T00:00:00.000Z</host:crDate>
        <host:upID>100000</host:upID>
        <host:upDate>2009-06-12T00:00:00.000Z</host:upDate>
      </host:infData>
    </resData>
    <extension>
      <sidn-ext-epp:ext>
        <sidn-ext-epp:infData>
          <sidn-ext-epp:host>
            <sidn-ext-epp:limited>false</sidn-ext-epp:limited>
          </sidn-ext-epp:host>
        </sidn-ext-epp:infData>
      </sidn-ext-epp:ext>
    </extension>
    <trID>
      <clTRID>ABC-12345</clTRID>
      <svTRID>7057BC48-18A0-0BB5-6618-7247AA67F51D</svTRID>
    </trID>
  </response>
</epp>
```

5.3 Host create

Aim:	To create a new name server in the DRS
Requirements:	Name of DNS server and IP address for an 'in zone' name server
Condition:	Name server does not already exist in the DRS
Outcome:	Name server is created and available for assignment in the DRS

The DNS server is the authoritative name server on which the domain name is or will be hosted.

NB: If creating a name server using a .amsterdam domain name, the domain name in question must already be registered. For example, ns.example-domain.amsterdam can be registered as the name of a name server only if example-domain.amsterdam is already registered. There is no similar requirement where name servers with other extensions (e.g. .com, .org, etc.) are concerned.

EPP command

Tag	Description	Occurrence min-max	Notes
<epp>		1	
<command>		1	
<create>		1	
<name>	Name server name	1	
<addr>	IP address	0-*	The registry has set a maximum of 10 ops. Optional 'ip' attribute indicates what type of IP address is specified: "v4" indicates an IPv4 address; "v6" indicates an IPv6 address. If no attribute is included, the default value "v4" is used.
<clTRID>	Registrar's transaction ID	0-1	

Example EPP command

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<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>HOSTCREATE-10IP.jaap.amsterdam</host:name>
        <host:addr ip="v4">201.11.12.13</host:addr>
        <host:addr ip="v4">202.11.12.13</host:addr>
        <host:addr ip="v4">203.11.12.13</host:addr>
        <host:addr ip="v4">204.11.12.13</host:addr>
        <host:addr ip="v4">205.11.12.13</host:addr>
        <host:addr ip="v4">206.11.12.13</host:addr>
        <host:addr ip="v4">207.11.12.13</host:addr>
        <host:addr ip="v4">208.11.12.13</host:addr>
        <host:addr ip="v4">209.11.12.13</host:addr>
        <host:addr ip="v4">210.11.12.13</host:addr>
      </host:create>
    </create>
    <clTRID>HOSTCREATE-10IP</clTRID>
  </command>
</epp>
```

Response message

For the full response message, see subsection [1.6 Standard response messages](#). The following additional tags are used:

Tag	Description	Occurrence min-max	Notes
<resData>		1	
<creData>		1	
<name>	Name submitted for the name server	1	
<crDate>	Creation date of the name server	1	

Example response message (transaction successful)

```
<?xml version="1.0" encoding="utf-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
xmlns:host="urn:ietf:params:xml:ns:host-1.0">
  <response>
    <result code="1000">
      <msg>The name server has been registered.</msg>
    </result>
    <resData>
      <host:creData>
        <host:name>hostcreate-10ip.jaap.amsterdam</host:name>
        <host:crDate>2009-10-23T09:30:29.000Z</host:crDate>
      </host:creData>
    </resData>
    <trID>
      <clTRID>HOSTCREATE-10IP</clTRID>
      <svTRID>100033</svTRID>
    </trID>
  </response>
</epp>
```

Example response message (transaction unsuccessful)

```
<?xml version="1.0" encoding="utf-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0" xmlns:sidn-ext-
epp="http://rxsd.domain-registry.nl/sidn-ext-epp-1.0">
  <response>
    <result code="2400">
      <msg>Validation of the transaction failed.</msg>
    </result>
    <extension>
      <sidn-ext-epp:ext>
        <sidn-ext-epp:response>
          <sidn-ext-epp:msg field="Name" code="C0089">There is no
superordinate domain name associated with the specified name server.</sidn-
ext-epp:msg>
        </sidn-ext-epp:response>
      </sidn-ext-epp:ext>
    </extension>
    <trID>
      <clTRID>HOSTCREATE-C0089</clTRID>
      <svTRID>100034</svTRID>
    </trID>
  </response>
</epp>
```

5.4 Host update

Aim: To update the IP addresses linked to a name server
Requirements: An existing name server
Condition: The name server must be managed by the updating registrar
Outcome: Updated IP addresses linked to domain name(s)

The 'Host update' command is used to link IP addresses to a name server, or to delink IP addresses from a name server, so that glue record amendments can be made. The host name itself cannot be changed. Changing the IP addresses for a name server will affect all the domain names associated with that name server.

The process can also be used to link domain names to or delink domain names from a name server. You may assign your own reference number to the transaction.

EPP command

Tag	Description	Occurrence min-max	Notes
<epp>		1	
<command>		1	
<update>		1	
<name>	Name of the name server to be updated	1	
<add>		0-1	At least one of the elements <add> and <rem> must be present.
<addr>	IP address	0-*	The registry has set a maximum of 10 ops. Optional 'ip' attribute indicates what type of IP address is specified: "v4" indicates an IPv4 address; "v6" indicates an IPv6 address. If no attribute is included, the default value "v4" is used.
<status>	Client status	0-7	Not used.
<rem>		0-1	
<addr>	IP address	0-*	The registry has set a maximum of 10 ops. Optional 'ip' attribute indicates what type of IP address is specified: "v4" indicates an IPv4 address; "v6" indicates an IPv6 address. If no attribute is included, the default value "v4" is used.
<status>	Client status	0-7	Not used.
<chg>		0-1	Not used.
<name>	The new name server name	1	Not used.
<clTRID>	Registrar's transaction ID	0-1	

Example EPP command

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<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.domain100.amsterdam</host:name>
        <host:add>
          <host:addr ip="v4">111.112.113.110</host:addr>
        </host:add>
      </host:update>
    </update>
    <clTRID>TestWZNMCI0T50</clTRID>
  </command>
</epp>
```

Response message

See subsection [1.6 Standard response messages](#).

Example response message (transaction successful)

```
<?xml version="1.0" encoding="utf-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000">
      <msg>The name server has been changed without consideration.</msg>
    </result>
    <trID>
      <clTRID>TestWZNMCI0T50</clTRID>
      <svTRID>100012</svTRID>
    </trID>
  </response>
</epp>
```

Example response message (transaction unsuccessful)

```
<?xml version="1.0" encoding="utf-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0" xmlns:sidn-ext-
epp="http://rxd.domain-registry.nl/sidn-ext-epp-1.0">
  <response>
    <result code="2303">
      <msg>The specified name server is unknown.</msg>
    </result>
    <extension>
      <sidn-ext-epp:ext>
        <sidn-ext-epp:response>
          <sidn-ext-epp:msg field="Naam" code="T0008">The specified name
server is unknown.</sidn-ext-epp:msg>
        </sidn-ext-epp:response>
      </sidn-ext-epp:ext>
    </extension>
    <trID>
      <clTRID>TestWZNMCI0T40</clTRID>
      <svTRID>100011</svTRID>
    </trID>
  </response>
</epp>
```

5.5 Host delete

Aim:	To remove a name server from the DRS
Requirements:	An existing name server
Condition:	Name server no longer linked to any domain name and must be managed by the deleting registrar
Outcome:	The name server is removed from the DRS

A name server that is still linked to a domain name cannot be deleted, unless it is a subordinate name server whose superordinate domain name is being deleted. When a superordinate domain is deleted, all subordinate hosts are deleted, whether they are linked or not. The deletion of subordinate hosts takes place as soon as the superordinate domain's status becomes *Available*. If the deletion of subordinate hosts leaves one or more domain names without any name servers, the status of the domain name(s) in question changes to *Inactive*. However, any domain names that are left with only one name server remain *Active*. Having only one name server is regarded as an irregular situation, which is tolerated temporarily, but which the registrar should rectify as soon as possible.

EPP command

Tag	Description	Occurrence min-max	Notes
<epp>		1	
<command>		1	
<delete>		1	
<name>	The name of the name server to be deleted	1	
<clTRID>	Registrar's transaction ID	0-1	

Example EPP command

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<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>ns10.domain100.amsterdam</host:name>
      </host:delete>
    </delete>
    <clTRID>TestVWDNC10T20</clTRID>
  </command>
</epp>
```

Response message

See subsection [1.6 Standard response messages](#).

Example response message (transaction successful)

```
<?xml version="1.0" encoding="utf-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000">
      <msg>The name server has been deleted.</msg>
    </result>
    <trID>
      <clTRID>TestVWDNC10T20</clTRID>
      <svTRID>100046</svTRID>
    </trID>
  </response>
</epp>
```

Example response message (transaction unsuccessful)

```
<?xml version="1.0" encoding="utf-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0" xmlns:sidn-ext-
epp="http://rxd.domain-registry.nl/sidn-ext-epp-1.0">
  <response>
    <result code="2303">
      <msg>The specified name server is unknown.</msg>
    </result>
    <extension>
      <sidn-ext-epp:ext>
        <sidn-ext-epp:response>
          <sidn-ext-epp:msg field="Naam" code="T0008">The specified name
server is unknown.</sidn-ext-epp:msg>
        </sidn-ext-epp:response>
      </sidn-ext-epp:ext>
    </extension>
  </response>
</epp>
```

```
<trID>  
  <clTRID>TestVWDNC10T20</clTRID>  
  <svTRID>100047</svTRID>  
</trID>  
</response>  
</epp>
```

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