

Second Level Registration Project Technical Update 1

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Summary

The SRS 6.0 release went live on Sunday 13th of July. This release contains the first phase of changes for the second level registration project roll-out.

In SRS 6.0 the public WHOIS server, the SRS Whois XML transaction and the EPP domain::check transaction have been updated to allow registrars and registrants to query a Second Level Registration to find its status. Details of these changes are shown below.

SRS Release 6.0 changes are in production and the registrar test environment.

You can access the Registrar Test environment from:

- SRS: srstest.srs.net.nz/srs/registrar
- EPP: srstestep.srs.net.nz
- Whois: srstest.srs.net.nz

If you have any problems connecting to the above systems please contact support@nzrs.net.nz

Second level registration changes in SRS Release 6.0

WHOIS Server Changes

The new successful query status codes being returned are:

Code	Value	Description
230	Will be Prohibited	<p>Applies to registrations at the second level only and will be returned until the second level registration policy 'go-live' date.</p> <p>For reasons of confusion, this domain name cannot be registered directly at the second level. These names include 'gov', 'government', 'com', 'edu', 'nic' and all macron variations of the current 15 second levels</p>
240	Will be PRR	<p>Applies to registrations at the second level only and will be returned until the second level registration policy 'go-live' date.</p> <p>Preferential Registration or Reservation (PRR). A domain status indicating that the Registrant of the registered third level domain (shown in the source_domain_nn field) will be eligible to register or reserve the shorter version of their domain name during the Preferential Registration Period for second level registrations (See DNCL Registering, Managing and Cancelling Domain Names Policy section 8 and 9)</p>
250	Will be Conflicted	<p>Applies to registrations at the second level only and will be returned until the second level registration policy 'go-live' date.</p> <p>A domain status which means there are at least two registrations at the third level that have rights over this domain and so its registration at the second level may need to go through a conflicted process after the second level registration policy 'go-live' date. See DNCL Registering, Managing and Cancelling Domain Names Policy section 8 and 10 for more details on the criteria for Conflicted domains.</p>
260	Will be Available	<p>Applies to registrations at the second level only and will be returned until the second level registration policy 'go-live' date.</p> <p>A domain status indicating that the domain is not eligible for Preferential Registration or Reservation and not registered and hence it will be available for registration after the second level registration policy 'go-live' date</p>

In addition there is a set of source domain name fields that may be returned for any unregistered domain name at the second level under .nz if certain requirements in the pending [DNCL Registering, Managing and Cancelling Domain Names Policy](#) section 8 - Preferential Registration Eligibility are met. These source domain names will show any domain names registered at the third level that are linked to the unregistered second level domain. There will not be any gaps in the sequence.

source_domain_name_01	The source domain name shows the registered third level domain name that is linked to the unregistered second level domain name
....	
source_domain_name_99	As above

Example Whois Output

Will be Prohibited

```
% New Zealand Domain Name Registry Limited
% Users confirm on submission their agreement to all published Terms
%
version: 5.00
query_datetime: 2014-04-29T16:13:42+12:00
domain_name: com.nz
query_status: 230 Will be Prohibited
%
%
%
%
% Users are advised that the following activities are strictly forbidden.
%
% Using multiple WHOIS queries, or using the output of multiple WHOIS
% queries in conjunction with any other facility or service, to enable
% or effect a download of part or all of the .nz Register.
%
% Using any information contained in the WHOIS query output to attempt a
% targeted contact campaign with any person, or any organisation, using any
% medium.
%
% A breach of these conditions will be treated as a breach of the .nz Policies
% and Procedures. Sanctions in line with those specified in the policies and
% procedures at www.dnc.org.nz may result from any breach.
%
% Copyright InternetNZ
```

Will be Available

```
% New Zealand Domain Name Registry Limited
% Users confirm on submission their agreement to all published Terms
%
version: 5.00
query_datetime: 2014-06-18T10:56:03+12:00
domain_name: nzrsnew.nz
query_status: 260 Will be Available
%
%
%
%
% Users are advised that the following activities are strictly forbidden.
%
% Using multiple WHOIS queries, or using the output of multiple WHOIS
% queries in conjunction with any other facility or service, to enable
% or effect a download of part or all of the .nz Register.
```

%
% Using any information contained in the WHOIS query output to attempt a
% targeted contact campaign with any person, or any organisation, using any
% medium.
%
% A breach of these conditions will be treated as a breach of the .nz Policies
% and Procedures. Sanctions in line with those specified in the policies and
% procedures at www.dnc.org.nz may result from any breach.
%
% Copyright InternetNZ

Will be PRR

% New Zealand Domain Name Registry Limited
% Users confirm on submission their agreement to all published Terms
%
version: 5.00
query_datetime: 2014-06-18T11:10:41+12:00
domain_name: dn3.nz
query_status: 240 Will be PRR
source_domain_name_01: dn3.net.nz
%
%
%
%
%
% Users are advised that the following activities are strictly forbidden.
%
% Using multiple WHOIS queries, or using the output of multiple WHOIS
% queries in conjunction with any other facility or service, to enable
% or effect a download of part or all of the .nz Register.
%
% Using any information contained in the WHOIS query output to attempt a
% targeted contact campaign with any person, or any organisation, using any
% medium.
%
% A breach of these conditions will be treated as a breach of the .nz Policies
% and Procedures. Sanctions in line with those specified in the policies and
% procedures at www.dnc.org.nz may result from any breach.
%
% Copyright InternetNZ

Will be Conflicted

% New Zealand Domain Name Registry Limited
% Users confirm on submission their agreement to all published Terms
%
version: 5.00
query_datetime: 2014-06-18T11:16:36+12:00
domain_name: nzrs.nz
query_status: 250 Will be Conflicted
source_domain_name_01: nzrs.org.nz
source_domain_name_02: nzrs.co.nz
source_domain_name_03: nzrs.net.nz
%
%
%
%
%
% Users are advised that the following activities are strictly forbidden.
%
% Using multiple WHOIS queries, or using the output of multiple WHOIS
% queries in conjunction with any other facility or service, to enable

% or effect a download of part or all of the .nz Register.
%
% Using any information contained in the WHOIS query output to attempt a
% targeted contact campaign with any person, or any organisation, using any
% medium.
%
% A breach of these conditions will be treated as a breach of the .nz Policies
% and Procedures. Sanctions in line with those specified in the policies and
% procedures at www.dnc.org.nz may result from any breach.
%
% Copyright InternetNZ

SRS Whois XML Transaction Changes

The new statuses shown above for the Whois Server will be returned for the SRS Whois XML transaction.

Also as per the whois server there is a set of linked domain name fields that may be returned for any unregistered domain name at the second level under .nz if certain requirements in the pending DNCL Registering, Managing and Cancelling Domain Names Policy section 8 -

Preferential Registration Eligibility are met. These linked domain names will show any domain names registered at the third level that are linked to the unregistered second level domain. There will not be any gaps in the sequence.

Eg:

```
<Linked3lds>  
  <Linked3ld domainname="nzrs.org.nz" />  
  <Linked3ld domainname="nzrs.co.nz" />  
  <Linked3ld domainname="nzrs.net.nz" />  
</Linked3lds>
```

Example Whois XML request

```
<?xml version="1.0" encoding="UTF-8"?>  
<SRsRequest VerMajor="1" RegistrarId="999" VerMinor="0">  
  <Whois DomainName="com.nz" />  
  <Whois DomainName="nzrsnew.nz" />  
  <Whois DomainName="dn3.nz" />  
  <Whois DomainName="nzrs.nz" />  
</SRsRequest>
```

Example Whois XML responses

Will be Prohibited

```
<Response FeSeq="20925329" FeId="8" Action="Whois"  
  OrigRegistrarId="999" RecipientRegistrarId="999">  
  <FeTimeStamp Year="2014" Month="06" Hour="12"  
    TimeZoneOffset="+12:00" Day="18" Second="23" Minute="16" />  
  <Domain Status="Will be Prohibited" DomainName="com.nz" />  
</Response>
```

Will be Available

```
<Response FeSeq="20925329" FeId="8" Action="Whois"  
  OrigRegistrarId="999" RecipientRegistrarId="999">  
  <FeTimeStamp Year="2014" Month="06" Hour="12"  
    TimeZoneOffset="+12:00" Day="18" Second="23" Minute="16" />
```

```
<Domain Status="Will be Available" DomainName="nzrsnew.nz" />
</Response>
```

Will be PRR

```
<Response FeSeq="20925329" FeId="8" Action="Whois"
OrigRegistrarId="999" RecipientRegistrarId="999">
  <FeTimeStamp Year="2014" Month="06" Hour="12"
  TimeZoneOffset="+12:00" Day="18" Second="23" Minute="16" />
  <Domain Status="Will be PRR" DomainName="dn3.nz">
    <Linked3lds>
      <Linked3ld domainname="dn3.net.nz" />
    </Linked3lds>
  </Domain>
</Response>
```

Will be Conflicted

```
<Response FeSeq="20925329" FeId="8" Action="Whois"
OrigRegistrarId="999" RecipientRegistrarId="999">
  <FeTimeStamp Year="2014" Month="06" Hour="12"
  TimeZoneOffset="+12:00" Day="18" Second="23" Minute="16" />
  <Domain Status="Will be Conflicted" DomainName="nzrs.nz">
    <Linked3lds>
      <Linked3ld domainname="nzrs.org.nz" />
      <Linked3ld domainname="nzrs.co.nz" />
      <Linked3ld domainname="nzrs.net.nz" />
    </Linked3lds>
  </Domain>
</Response>
```

EPP domain::check Transaction Changes

For EPP, the domain:check transaction currently returns a status showing if the domain is available or not. Informational messages will be returned for the new second level registration statuses:

Example request

```
<?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>com.nz</domain:name>
      </domain:check>
    </check>
    <clTRID>checkdomain-2014-06-18-com.nz-019</clTRID>
  </command>
</epp>
```

Example Responses

Will be Prohibited

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000"><msg lang="en">Command completed successfully</msg></result>
    <resData>
      <domain:chkData xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
        <domain:cd>
          <domain:name avail="0">com.nz</domain:name>
          <domain:reason>Will be Prohibited</domain:reason>
        </domain:cd>
      </domain:chkData>
```

```
</resData>
<trID><clTRID>checkdomain-2014-06-18-com.nz-019</clTRID><svTRID>8,20925487</svTRID>
</trID>
</response>
</epp>
```

Will be Available

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000"><msg lang="en">Command completed successfully</msg></result>
    <resData>
      <domain:chkData xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
        <domain:cd>
          <domain:name avail="0">nzrsnew.nz</domain:name>
          <domain:reason>Will be Available</domain:reason>
        </domain:cd>
      </domain:chkData>
    </resData>
  </trID>
  <clTRID>checkdomain-2014-06-18-nzrsnew.nz-019</clTRID>
  <svTRID>8,20925488</svTRID>
</trID>
</response>
</epp>
```

Will be PRR

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000"><msg lang="en">Command completed successfully</msg></result>
    <resData>
      <domain:chkData xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
        <domain:cd>
          <domain:name avail="0">dn3.nz</domain:name>
          <domain:reason>Will be PRR</domain:reason>
        </domain:cd>
      </domain:chkData>
    </resData>
  <trID><clTRID>checkdomain-2014-06-18-dn3.nz-019</clTRID><svTRID>8,20925489</svTRID></trID>
</response>
</epp>
```

Will be Conflicted

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000"><msg lang="en">Command completed successfully</msg></result>
    <resData>
      <domain:chkData xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
        <domain:cd>
          <domain:name avail="0">nzrs.nz</domain:name>
          <domain:reason>Will be Conflicted</domain:reason>
        </domain:cd>
      </domain:chkData>
    </resData>
  <trID><clTRID>checkdomain-2014-06-18-nzrs.nz-019</clTRID><svTRID>8,20925490</svTRID></trID>
</response>
</epp>
```

Existing third level registration

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

```
<domain:chkData xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
<domain:cd><domain:name avail="0">nzrs.net.nz</domain:name>
</domain:cd>
</domain:chkData>
</resData>
<trID><clTRID>checkdomain-2014-06-18-nzrs.net.nz-019</clTRID><svTRID>8,20925491</svTRID></trID>
</response></epp>
```

Other Changes in the SRS 6.0 Release

The EPP domain::update request with only an empty auth_info will generate a new UDAI even if the domain is in PendingRelease and it will not uncancel the domain.

The EPP domain::info request can be used to validate the UDAI by populating the domain:authInfo field. The EPP proxy will either return the domain:info details if the UDAI is valid or result code 2202 invalid authorisation details if the UDAI is invalid.