

*Functional
specifications for the
Convergence Project -
Batch 2 for the .fr TLD
and French Overseas
ccTLDs*

- Version 1.0 -
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Functional Specifications for the upgrades in batch 2 of the "Convergence" project for the .fr TLD and the French Overseas ccTLDs

1. Introduction

Multi-year registration is now possible for domain names under the .fr TLD and the French Overseas ccTLDs. The upgrade corresponds to the first delivery of a set of technical and functional enhancements referred to as the "convergence project", which was discussed during the 2014 Registrar Day and the Afnic consultative committee meetings.

These developments are part of the aim to improve and simplify the shared registry system (SRS) for domain names under the .fr and overseas ccTLDs. The 3 changes contained in this second batch are as follows:

- 1. Improving the Trade operation**
- 2. Setting up Grace Periods**
- 3. Merging of Update operations**

Time schedule:

Sandboxing: 16/06/2015

Go-live: 30/06/2015

2. The new Trade operation

2.1. Description

- The trade command includes a new element: the authinfo.
- A trade operation will no longer allow a simultaneous change in registrar. If the change in ownership is accompanied by a change in registrar, two separate operations will be required: a Transfer and then a Trade, or vice-versa

2.2. EPP

2.2.1. New frnic TLD: frnic-1.3

The modification of the Trade operation requires an update of the EPP TLD from frnic-1.2 to frnic-1.3.

The new Trade command will no longer include:

- The keepDS attribute (set to 1 by default, so the DS records are kept)
- The administrative contact item (the contact is kept after the trade operation)
- The technical contact item (the contact is kept after the trade operation)

It will integrate, as mentioned above, the authInfo item.

The new XSD schema will be published on May 5th 2015 at the following address:

<http://www.afnic.fr/data/divers/public/frnic-1.3.xsd>

2.2.2. Change in EPP commands

Here are the changes to the EPP commands concerning the Trade operation (in accordance with the new XSD schema frnic-1.3):

Command of the "request" type - Start a trade operation

Example of a command sent by a registrar:

```
<epp xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="urn:ietf:params:xml:ns:epp-1.0"
xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0 epp-1.0.xsd">
<extension>
<frnic:ext xmlns:domain="urn:ietf:params:xml:ns:domain-1.0"
xmlns:frnic="http://www.afnic.fr/xml/epp/frnic-1.3">
  <frnic:command>
    <frnic:trade op="request">
      <frnic:domain>
        <frnic:name>nouveautrade.fr</frnic:name>
        <frnic:registrant>R9153</frnic:registrant>
        <frnic:authInfo>
          <domain:pw>blabla</domain:pw>
        </frnic:authInfo>
      </frnic:domain>
    </frnic:trade>
    <frnic:clTRID>48946491641486516845</frnic:clTRID>
  </frnic:command>
```



```

</frnic:ext>
</extension>
</epp>

```

The response from the EPP server:

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0 epp-1.0.xsd">
  <response>
    <result code="1000">
      <msg>Command completed successfully</msg>
    </result>
    <extension>
      <frnic:ext xmlns:frnic="http://www.afnic.fr/xml/epp/frnic-1.3">
        <frnic:resData>
          <frnic:trdData>
            <frnic:domain>
              <frnic:name>nouveautrade.fr</frnic:name>
              <frnic:trStatus>oldHolderApproved</frnic:trStatus>
              <frnic:reID>-jfzfvzfzfvzf-.fr</frnic:reID>
              <frnic:reDate>2015-04-10T20:46:10.0Z</frnic:reDate>
              <frnic:reHldID>R9153</frnic:reHldID>
              <frnic:rhDate>2015-04-25T20:46:10.0Z</frnic:rhDate>
              <frnic:acID>-jfzfvzfzfvzf-.fr</frnic:acID>
              <frnic:acHldID>DD3713</frnic:acHldID>
              <frnic:ahDate>2015-04-11T21:46:10.0Z</frnic:ahDate>
            </frnic:domain>
          </frnic:trdData>
        </frnic:resData>
      </frnic:ext>
    </extension>
    <trID>
      <svTRID>FR-PROD-epp01-13090-5889-1428702918.30686</svTRID>
    </trID>
  </response>
</epp>

```

Command of the "cancel" type – Cancelling a Trade operation

This command is only authorized for the registrar which initiated the Trade operation.

Example of a command sent by a registrar:

```

<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0 epp-1.0.xsd">
  <extension>
    <frnic:ext xmlns:domain="urn:ietf:params:xml:ns:domain-1.0"
xmlns:frnic="http://www.afnic.fr/xml/epp/frnic-1.3">
      <frnic:command>
        <frnic:trade op="cancel">
          <frnic:domain>
            <frnic:name>nouveautrade.fr</frnic:name>
            <frnic:authInfo>
              <domain:pw>blabla</domain:pw>
            </frnic:authInfo>
          </frnic:domain>
        </frnic:trade>
        <frnic:clTRID>201504101228162</frnic:clTRID>
      </frnic:command>
    </frnic:ext>
  </extension>

```

```
</epp>
```

The response from the EPP server:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0 epp-1.0.xsd">
  <response>
    <result code="1000">
      <msg>Command completed successfully</msg>
    </result>
    <msgQ count="1" id="28222515"/>
    <extension>
      <frnic:ext xmlns:frnic="http://www.afnic.fr/xml/epp/frnic-1.3">
        <frnic:resData>
          <frnic:trdData>
            <frnic:domain>
              <frnic:name>nouveautrade.fr</frnic:name>
              <frnic:trStatus>clientCancelled</frnic:trStatus>
              <frnic:reID>-jfzfvzfzfvf-.fr</frnic:reID>
              <frnic:reDate>2015-04-10T20:46:10.0Z</frnic:reDate>
              <frnic:reHldID>R9153</frnic:reHldID>
              <frnic:rhDate>2015-04-25T20:46:10.0Z</frnic:rhDate>
              <frnic:acID>-jfzfvzfzfvf-.fr</frnic:acID>
              <frnic:ahDate>2015-04-11T23:46:10.0Z</frnic:ahDate>
            </frnic:domain>
          </frnic:trdData>
        </frnic:resData>
      </frnic:ext>
    </extension>
    <trID>
      <svTRID>FR-PROD-epp01-12341-4169-1428680544.97324</svTRID>
    </trID>
  </response>
</epp>
```

2.2.3. EPP notifications

The EPP notifications are not modified.

Example of notification:

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1301">
      <msg>Command completed successfully; ack to dequeue</msg>
    </result>
    <msgQ count="1" id="50012">
      <qDate>2016-01-03T00:00:00.0Z</qDate>
      <msg>Trade in progress.</msg>
    </msgQ>
    <extension>
      <frnic:ext xmlns:frnic="http://www.afnic.fr/xml/epp/frnic-1.3">
        <frnic:resData>
          <frnic:trdData>
            <frnic:domain>
              <frnic:name>ndd-de-test-0001.fr</frnic:name>
              <frnic:trStatus>holdersApproved</frnic:trStatus>
              <frnic:reID>-jfzfvzfzfvf-.fr</frnic:reID>
              <frnic:reDate>2016-01-01T00:00:00.0Z</frnic:reDate>
              <frnic:rhDate>2016-01-03T00:00:00.0Z</frnic:rhDate>
              <frnic:acID>-jfzfvzfzfvf-.fr</frnic:acID>
              <frnic:acHldID>MM4567</frnic:acHldID>
            </frnic:domain>
          </frnic:trdData>
        </frnic:resData>
      </frnic:ext>
    </extension>
  </response>
</epp>
```

```
<frnic:ahDate>2016-01-02T00:00:00.0Z</frnic:ahDate>
</frnic:domain>
</frnic:trdData>
</frnic:resData>
</frnic:ext>
</extension>
<trID>
<clTRID>une-reference-client</clTRID>
<svTRID>frnic-00000014</svTRID>
</trID>
</response>
</epp>
```

2.2.4. Transition to frnic-1.3

A transition period will be introduced to facilitate the deployment of these upgrades. The transition period will begin after production go-live on 30/06/2015 and will end in November 2015.

The different parameters to be taken into account are as follows:

- The greeting will announce frnic-1.3 and frnic-1.2
- You will have to declare either frnic-1.2, or frnic-1.3
- If you only declare frnic-1.2, you will not be able to carry out Trade operations. You will have to go through the extranet
- Notifications can be popped with frnic-1.2 or 1.3-frnic

2.3. Extranet

The extranet will only allow Trade operations if the domain name is in your portfolio.

The form will be modified as follows:

- Addition of the "authinfo" field
- Deletion of the "Administrative Contact" and "Technical Contact" fields (the contacts are kept after the Trade operation)
- Deletion of the "keepDS" field (set to 1 by default, so the DS records are kept)

3. Grace Periods

3.1. Description

After the creation, transfer and renew operations, you will have a 5-day grace period. If the domain name is deleted during the grace period, the transaction is still charged but a credit will be issued.

Grace periods will be activated as of 1 July 2015.

3.2. List, duration and description

List of grace periods enabled for the *.fr* TLD and French Overseas ccTLDs (in accordance with RFC 3915):

<i>Grace Period</i>	<i>Duration (days)</i>	<i>Description</i>
addPeriod	5	After any creation of a domain name
transferPeriod	5	After any transfer of a domain name
renewPeriod	5	After any renewal of a domain name
redemptionPeriod	30	After any deletion of a domain name

3.3. Case of the Cancellation of a Grace Period

When a domain name is in a grace period and is the subject of a new paid transaction, the grace period corresponding to the initial operation is cancelled. If the new paid transaction entails a grace period, it is activated as soon as the operation has been completed.

There is a special case, as shown in the table below: the deletion of a domain name during an "addPeriod" does not trigger a redemption period; the domain name is completely deleted and available again for registration.

The possible cases are summarized in the following table:

<i>Initial operation / Grace Period activated</i>	<i>Operation carried out during the Grace Period</i>	<i>Cancellation of the Grace Period (yes/no)</i>	<i>New Grace Period activated</i>	<i>Billing of the initial operation</i>	<i>Credit (yes/no)</i>
Creation / addPeriod	Transfer	Yes	transferPeriod	Yes	No
Creation / addPeriod	Trade	Yes	-	Yes	No
Creation / addPeriod	Recover	Yes	-	Yes	No
Creation / addPeriod	Renew	Yes	renewPeriod	Yes	No
Creation / addPeriod	Delete		-	Yes	Yes
Creation / addPeriod	Update	No	-	Yes	No
Renew / renewPeriod	Transfer	Yes	transferPeriod	Yes	No
Renew / renewPeriod	Trade	Yes	-	Yes	No
Renew / renewPeriod	Recover	Yes	-	Yes	No
Renew / renewPeriod	Renew	Yes	renewPeriod	Yes	No
Renew / renewPeriod	Delete		redemptionPeriod	Yes	Yes
Renew / renewPeriod	Update	No	-	Yes	No
Transfer / transferPeriod	Transfer	Yes	transferPeriod	Yes	No
Transfer / transferPeriod	Trade	Yes	-	Yes	No
Transfer / transferPeriod	Recover	Yes	-	Yes	No
Transfer / transferPeriod	Renew	Yes	renewPeriod	Yes	No
Transfer / transferPeriod	Delete		redemptionPeriod	Yes	Yes
Transfer / transferPeriod	Update	No	-	Yes	No
Delete / redemptionPeriod	Restore	Yes	-	No	No

3.4. Credit ceiling for creations

In the case of grace periods related to creation operations, we want to limit "domain tasting" and apply the same rule as ICANN. The amount of the monthly credit per registrar shall not exceed 50 domain names, or 10% of the number of net creations for the month. Afnic will retain the higher value of the two as the amount of the credit.

4. Unified update

4.1. Description

- **Merger of update operations:** technical, contextual and administrative updates will become a single update and can be carried out in one command.
- With a single command you will be able to update one or more items (name servers, contacts, authinfo, etc.).
- Updating the holder contact will continue to be impossible since it is the subject of a special Trade operation.

4.2. EPP

Your command to update a domain name (domain:update) can consist of the following items (the Restore operation is not concerned - Restore using the EPP extension rgp):

- Name servers (domain:ns)
- Administrative and technical contacts (domain:contact)
- Authinfo (domain:authInfo)
- clientHold status (domain:status)
- DNSSEC registration(s) (with the extension secDNS-1.1)

The technical integration guide is the reference for update specifications.

4.3. Extranet

A form to update all the items related to a domain name is available. It will combine the three following forms:

- Update[tech] – Technical update
- Update[admin] – Administrative update
- Update[context] – Contextual update