

**VIETNAM INTERNET NETWORK  
INFORMATION CENTER - VNNIC**



**VNNIC EPP TOOL GUIDELINE  
(Version 1.0)**

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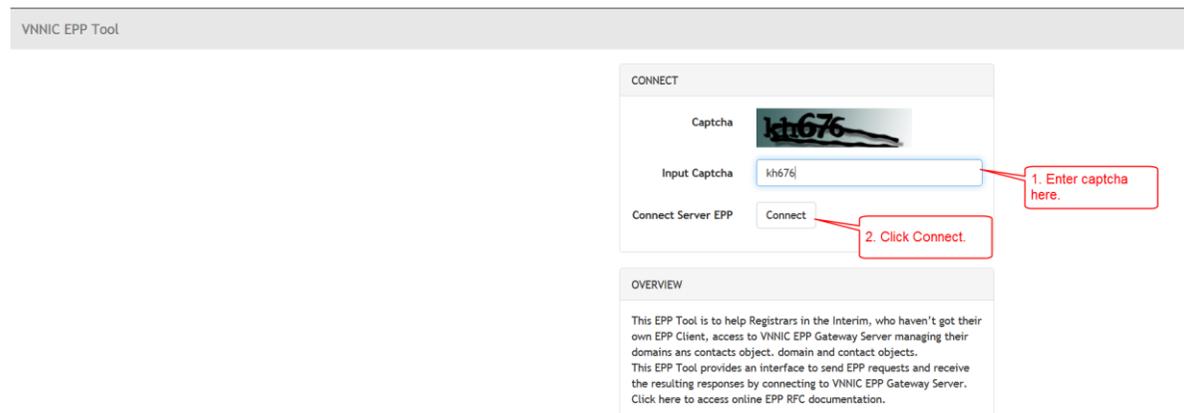
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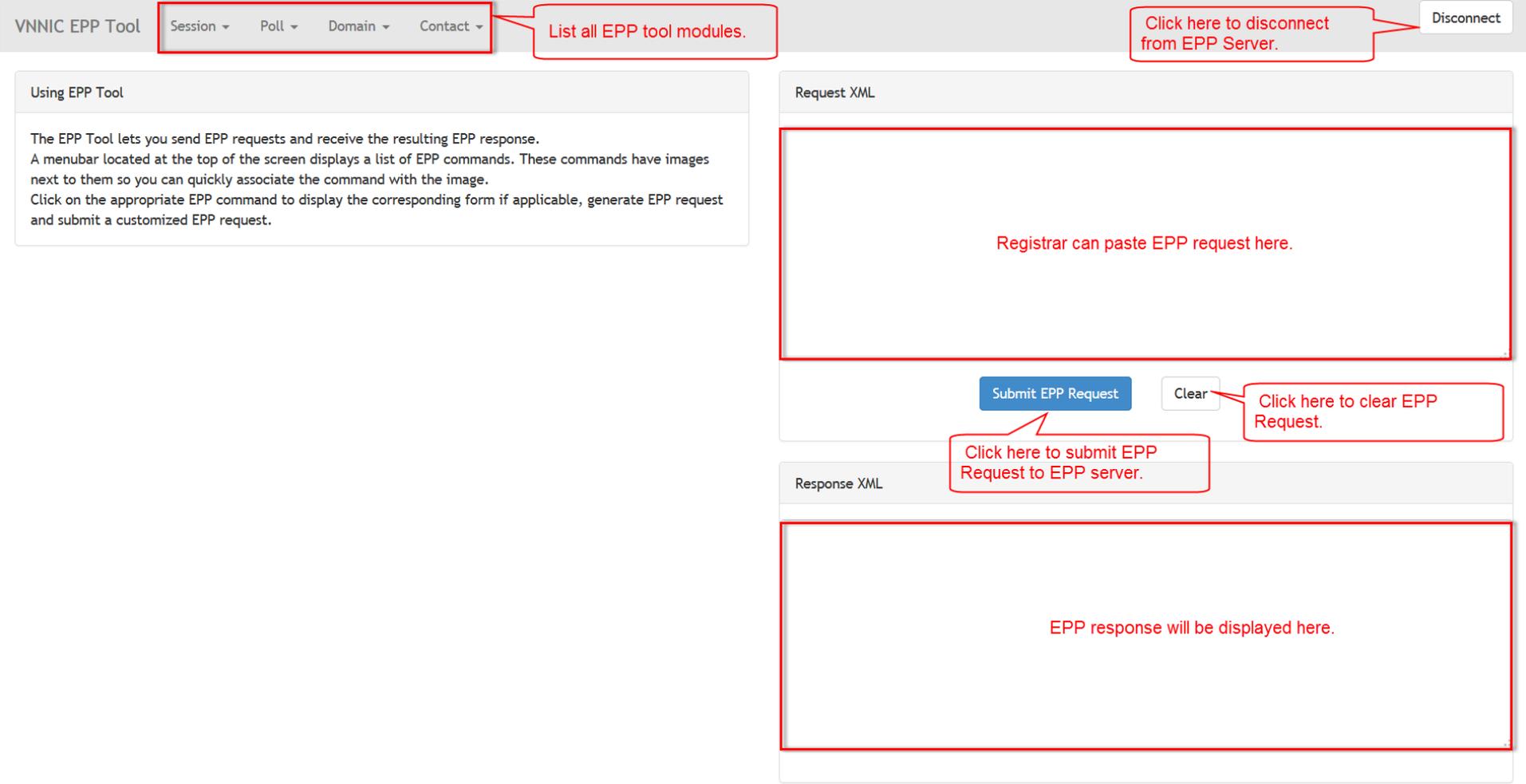
## 1. OVERVIEW

This EPP Tool is a temporary tool to help VNNIC's Registrars, who haven't got their own EPP Client system, access to VNNIC EPP Gateway Server for managing their domain and contact objects. This EPP Tool provides an interface to send EPP requests and receive the responses by connecting to VNNIC EPP Gateway Server. In this tool, we have 4 modules:

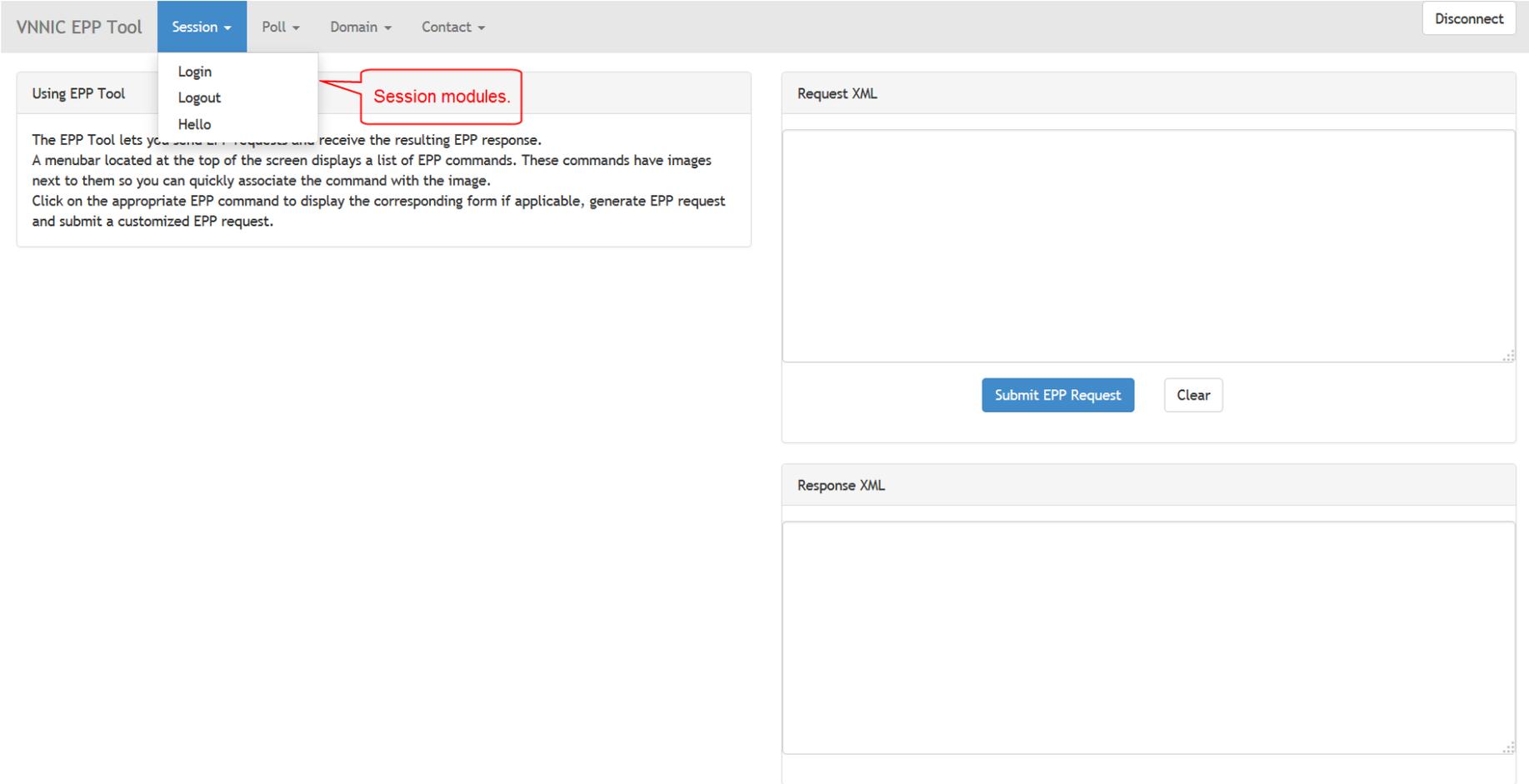
- Session : to manage EPP session, including 3 child modules : login, logout, hello.
- Poll : to manage EPP messages poll, including 2 child modules : request, acknowledge.
- Domain : to manage domain object, including 10 child modules: check, create, info, update, renew, transfer request, transfer query, transfer approve, transfer reject, transfer cancel.
- Contact: to manage contact object, including 4 child modules: check, create, info, update.
- VNNIC's registrar can connect to VNNIC EPP Tool via link: <http://registrar-srs.vnnic.vn>



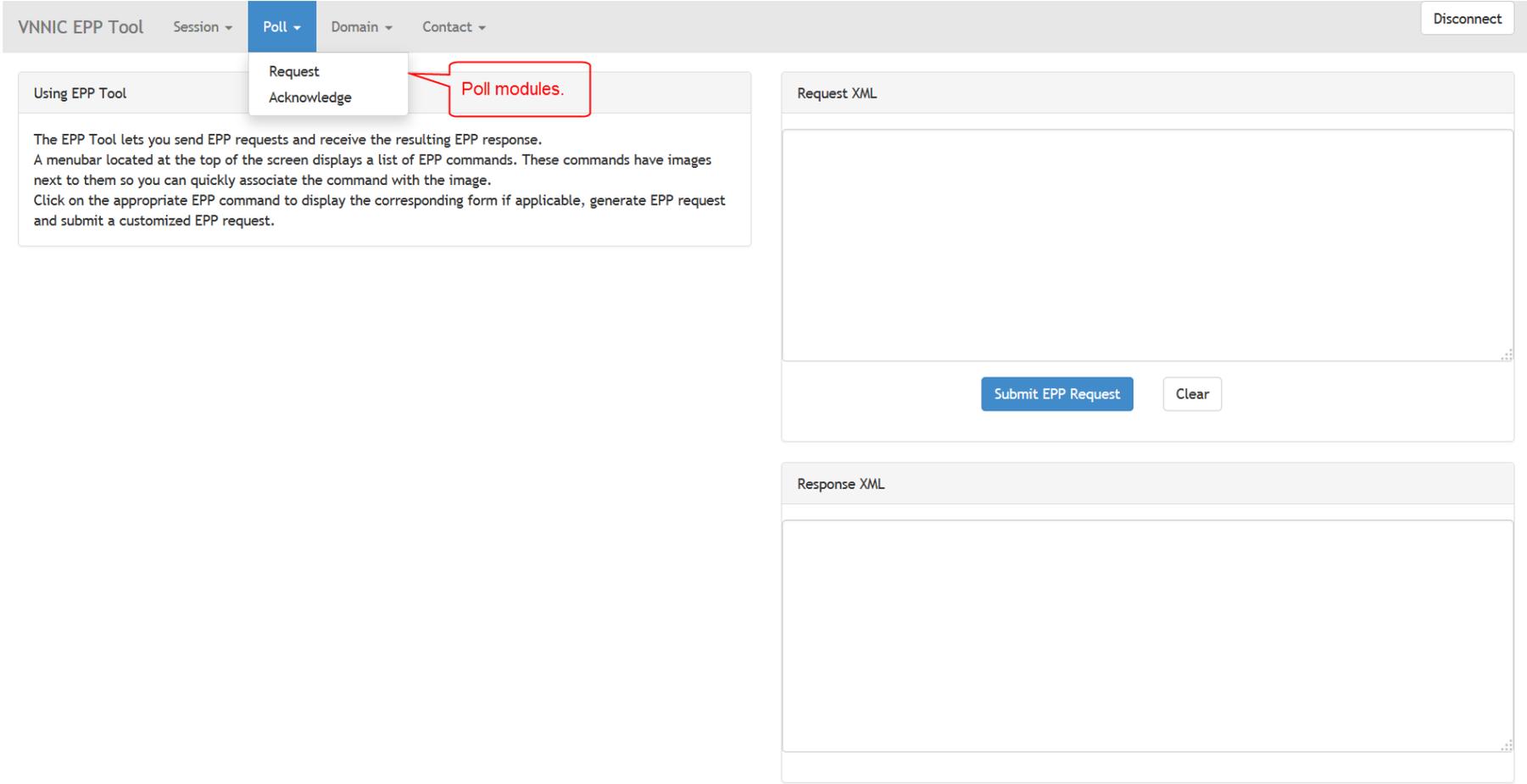
Picture 1: VNNIC EPP Tool GUI



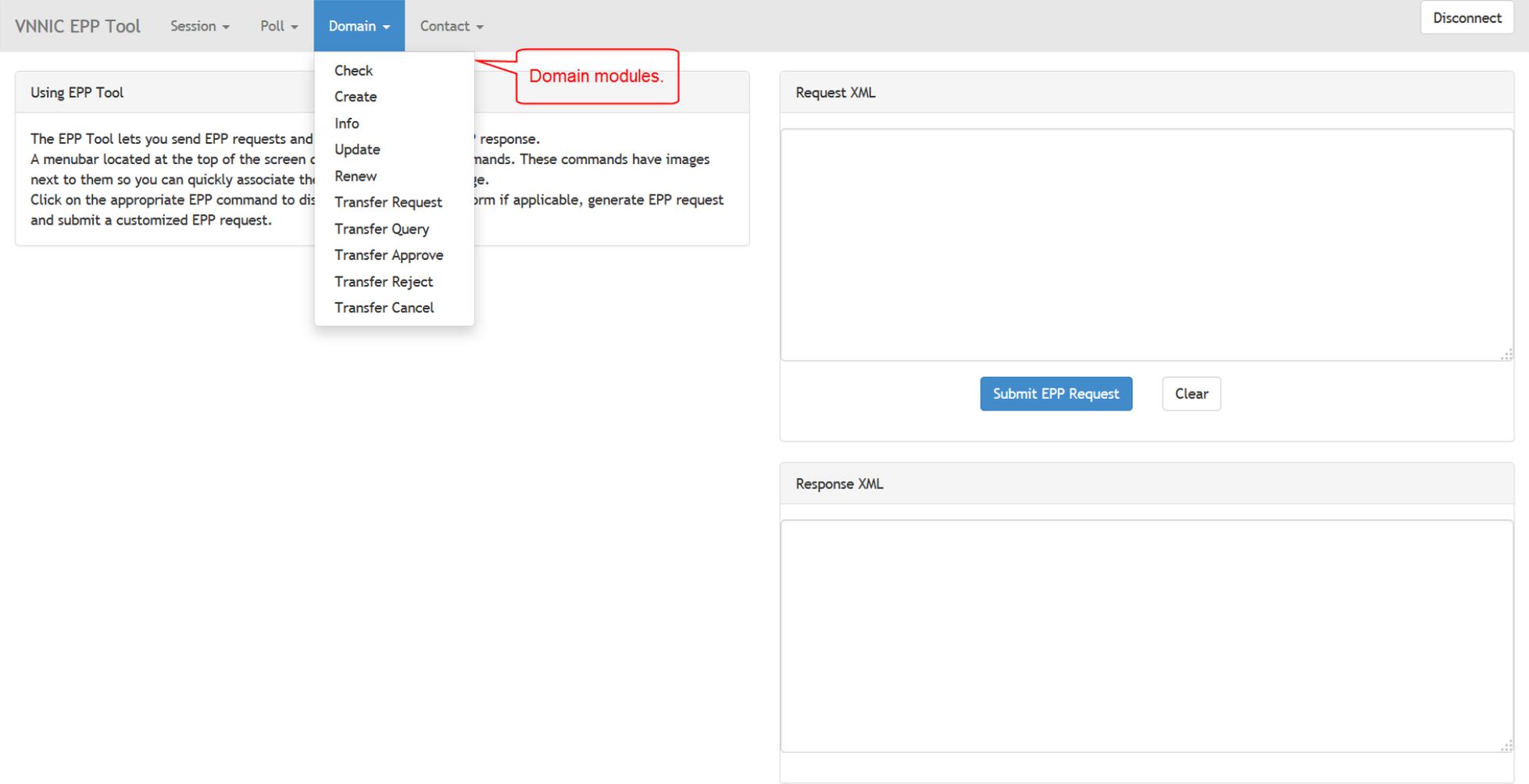
Picture 2: VNNIC EPP Tool GUI



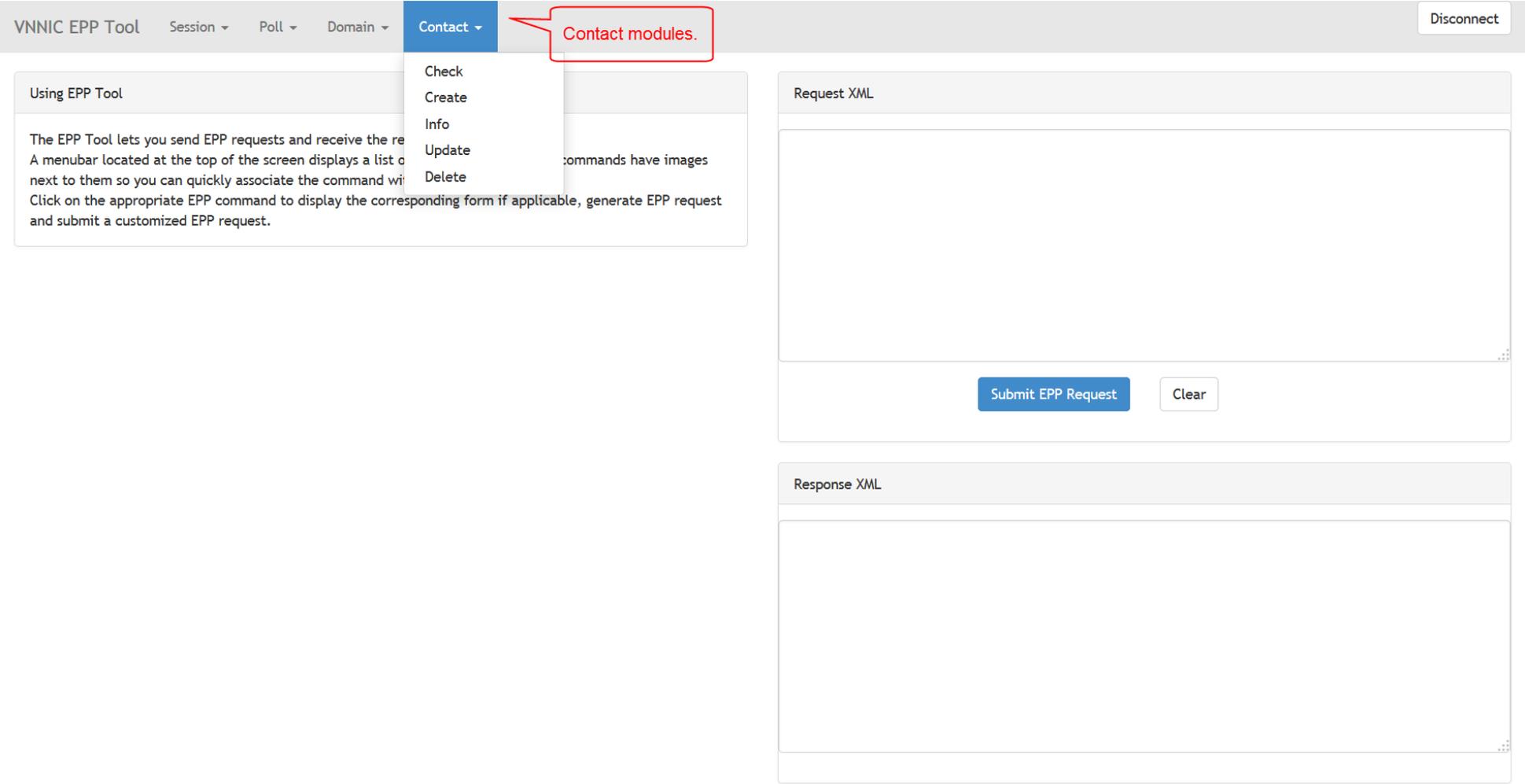
Picture 3: VNNIC EPP Tool GUI



Picture 4: VNNIC EPP Tool GUI



Picture 5: VNNIC EPP Tool GUI



Picture 6: VNNIC EPP Tool GUI

2. SESSION MODULE:

2.1. How to login into VNNIC EPP TOOL

The screenshot shows the VNNIC EPP Tool interface with a top navigation bar containing 'VNNIC EPP Tool', 'Session', 'Poll', 'Domain', 'Contact', and a 'Disconnect' button. The main area is divided into three sections: 'Login', 'Request XML', and 'Response XML'.  
1. A callout points to the 'Session' menu in the top bar.  
2. A callout points to the 'Login' sub-menu.  
3. A red box highlights the login form with fields for '\*Login:' (ntloc1), '\*Password:' (12345678), and 'New Password:' (Password). A callout points to these fields.  
4. A callout points to the 'Generate EPP' button.  
5. A callout points to the 'Request XML' section, which displays an XML command for login.  
6. A callout points to the 'Submit EPP Request' button.  
7. A callout points to the 'Response XML' section, which displays an XML response indicating successful command completion.

1. Click Menu Session.  
2. Click Menu Login.

\*Login: ntloc1  
\*Password: 12345678  
New Password: Password

Required fields marked with \*

Generate EPP Clear

3. Enter all arguments for login request here.

4. Click Generate EPP .

5. EPP login command has been generated and will be displayed

Request XML

```
<?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>  
<login>  
<clID>ntloc1</clID>  
<pw>12345678</pw>  
<options>  
<version>1.0</version>  
<lang>en</lang>  
</options>
```

Submit EPP Request Clear

6. Click Submit EPP Request.

Response XML

```
<?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">  
<response>  
<result code="1000">  
<msg>Command completed successfully</msg>  
</result>  
<trID>  
<clTRID>ac056e83b89c118a443d10c38f0821c2</clTRID>  
<svTRID>VNNIC-EPP-69dca380-6844-4b47-b03a-11ead38ab4cc</svTRID>  
</trID>
```

Picture 7: VNNIC EPP Tool Login Screen

### 2.2. How to change registrar password

The screenshot displays the VNNIC EPP Tool interface with the following components and callouts:

- Top Bar:** VNNIC EPP Tool, Session, Poll, Domain, Contact, Disconnect.
- 1. Click Menu Session. 2. Click Menu Login.** Callout pointing to the Session and Login dropdown menus.
- 3. Enter all arguments for changing password here.** Callout pointing to the Login, Password, and New Password input fields.
- 4. Click Generate EPP.** Callout pointing to the Generate EPP button.
- 5. EPP command has been generated and will be displayed** Callout pointing to the Request XML output area.
- 6. Click Submit EPP Request.** Callout pointing to the Submit EPP Request button.
- 7. EPP Response will be displayed here.** Callout pointing to the Response XML output area.

**Request XML:**

```
<?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>
<login>
<clID>ntloc1</clID>
<pw>12345678</pw>
<newPW>123456789</newPW>
<options>
<version>1.0</version>
<lang>en</lang>

```

**Response XML:**

```
<response>
<result code="1000">
<msg>Command completed successfully</msg>
</result>
</response>
<trID>
<clTRID>1383d98660c110635a0d4b2832c6b5e5</clTRID>
<svTRID>VNNIC-EPP-760e43ce-03e3-43aa-8e89-e3c9ae3f5d39</svTRID>
</trID>
</response>
</epp>

```

Picture 8: VNNIC EPP Tool Change Password Screen

### 2.3. How to send Hello command

The screenshot displays the VNNIC EPP Tool interface. At the top, there is a navigation bar with 'VNNIC EPP Tool' and a 'Session' dropdown menu. The 'Session' menu is open, showing options: 'Login', 'Logout', and 'Hello'. A red callout box points to the 'Session' and 'Hello' options with the text: '1. Click Menu Session. 2. Click Menu Hello.' To the right of the menu is a 'Disconnect' button. Below the navigation bar is a 'Form Section' which is currently empty. To the right of the form section is the 'Request XML' field, which contains the following XML code:
 

```
<?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">
<hello/>
</epp>
```

 A red callout box points to this field with the text: '3. EPP Hello command has been generated and will display here.' Below the 'Request XML' field are two buttons: 'Submit EPP Request' (highlighted in blue) and 'Clear'. A red callout box points to the 'Submit EPP Request' button with the text: '4. Click Submit EPP Request.' Below these buttons is the 'Response XML' field, which contains the following XML code:
 

```
<?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">
<greeting>
<svID>VNNIC EPP Server</svID>
<svDate>2014-10-07T10:31:50.0487</svDate>
<svcMenu>
<version>1.0</version>
<lang>en</lang>
<lang>vi</lang>
```

 A red callout box points to this field with the text: '5. EPP Response display here.'

Picture 9: VNNIC EPP Tool Session Screen

2.4. How to logout VNNIC EPP TOOL

The screenshot shows the VNNIC EPP Tool interface. At the top, there is a navigation bar with 'VNNIC EPP Tool', 'Session', 'Poll', 'Domain', and 'Contact' menus, and a 'Disconnect' button. The 'Session' menu is open, showing 'Login', 'Logout', and 'Hello' options. A red callout box labeled '1. Click Menu Session. 2. Click Menu Logout.' points to the 'Logout' option. Below the menu is a 'Form Section' which is currently empty. To the right, the 'Request XML' field contains the following XML code: 

```
<?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>
<logout/>
<clTRID>849723621e22cce949539e1e57074be8</clTRID>
</command>
</epp>
```

 A red callout box labeled '3. EPP logout command has been generated and will display here.' points to this XML. Below the XML are 'Submit EPP Request' and 'Clear' buttons. A red callout box labeled '4. Click Submit EPP Request .' points to the 'Submit EPP Request' button. Below the buttons is the 'Response XML' field, which contains the following XML code: 

```
<?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">
<response>
<result code="1500">
<msg>Command completed successfully; ending session</msg>
</result>
<trID>
<clTRID>849723621e22cce949539e1e57074be8</clTRID>
<svTRID>VNNIC-EPP-113f50eb-f8d7-4c50-bfc8-b929404b949b</svTRID>
```

 A red callout box labeled '5. EPP Response display here. If you logout successfully, result code must be "1500" and msg must be " Command complete successfully; ending session"' points to this XML.

Picture 10: VNNIC EPP Tool Logout Screen

### 3. CONTACT MODULE:

#### 3.1. How to create EPP contact

The screenshot shows the 'Contact Create' interface of the VNNIC EPP Tool. The interface is divided into several sections:

- Contact Create Form:** Contains fields for \*Contact Id, \*Name, \*Postal Info, Organization, \*Country, \*City, \*Address, \*Auth Info, \*Phone, Fax, \*Email, and a 'Contact Extension' section with fields for \*Type, \*ID/PP, \*Gender, \*Birthday, and Position. A 'Generate EPP' button is at the bottom.
- Request XML:** Displays the XML command generated for the contact creation, including details like contact id, postal info, name, and organization.
- Response XML:** Displays the XML response after the request is submitted, showing a successful result code and the created contact data.

Numbered annotations (1-7) are placed over the interface to guide the user through the process:

1. Click Menu Contact.
2. Click Menu Create.
3. Enter arguments for create new contact here.
4. Click Generate EPP.
5. EPP command has been generated and will be displayed.
6. Click Submit EPP Request.
7. EPP Response will be displayed here.

Picture 11: VNNIC EPP Tool Contact Create screen.

### 3.2. How to check EPP contact

The screenshot shows the VNNIC EPP Tool interface with the 'Contact' menu open. The 'Contact Check' section contains a form with a text input field for '\*Contact Id(s):' containing 'ntloc12345'. A 'Generate EPP' button is visible below the input. The 'Request XML' section displays the generated XML command: 

```
<?xml version="1.0" encoding="utf-8" standalone="no"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0 epp-1.0.xsd">
<command>
<check>
<contact:check xmlns:contact="urn:ietf:params:xml:ns:contact-1.0"
xsi:schemaLocation="urn:ietf:params:xml:ns:contact-1.0 contact-1.0.xsd">
<contact:id>ntloc12345</contact:id>
</contact:check>
</check>
</command>
<clTRID>0577267cca4af0ed5fc9cd6355b01fdc</clTRID>
```

 Below this is a 'Submit EPP Request' button. The 'Response XML' section shows the resulting XML response: 

```
<?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">
<response>
<result code="1000">
<msg>Command completed successfully</msg>
</result>
<resData>
<contact:chkData xmlns:contact="urn:ietf:params:xml:ns:contact-1.0"
xsi:schemaLocation="urn:ietf:params:xml:ns:contact-1.0 contact-1.0.xsd">
<contact:cd>
```

 Eight red callout boxes provide instructions: 1. Click Menu Contact. 2. Click Menu Check. 3. Enter Contact ID here. 4. Click "Add". 5. Click Generate EPP. 6. EPP contact:check command has been generated and will display here. 7. Click Submit EPP Request. 8. EPP Response will display here.

Picture 12: VNNIC EPP Tool Contact Check screen.

### 3.3. How to check contact info

The screenshot displays the VNNIC EPP Tool interface with the 'Contact' menu open. The 'Contact Info' section contains the following elements:

- Contact Info:** A form with a '\*Contact Id:' field containing 'ntloc12345' and an 'Auth Info:' field containing '123456'. A 'Generate EPP' button and a 'Clear' button are located below the form.
- Request XML:** A text area showing the generated XML command:
 

```
<?xml version="1.0" encoding="utf-8" standalone="no"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0 epp-1.0.xsd">
<command>
<info>
<contact:info xmlns:contact="urn:ietf:params:xml:ns:contact-1.0"
xsi:schemaLocation="urn:ietf:params:xml:ns:contact-1.0 contact-1.0.xsd">
<contact:id>ntloc12345</contact:id>
<contact:authInfo>
<contact:pw>123456</contact:pw>
</contact:authInfo>
</command>
```
- Response XML:** A text area showing the received XML response:
 

```
<contact:infData xmlns:contact="urn:ietf:params:xml:ns:contact-1.0"
xsi:schemaLocation="urn:ietf:params:xml:ns:contact-1.0 contact-1.0.xsd">
<contact:id>ntloc12345</contact:id>
<contact:roid>CONTACT-1530232</contact:roid>
<contact:status s="ok"/>
<contact:status s="linked"/>
<contact:postalInfo type="loc">
<contact:name>Nguyễn Thanh Lộc</contact:name>
<contact:org>VNNIC</contact:org>
<contact:addr>
<contact:street>Lô 21, Đường số 7, KCN An Đồn, Sơn Trà</contact:street>
```

Annotations in red boxes provide the following instructions:

1. Click Menu Contact.
2. Click Menu Info.
3. Enter Contact ID here.
4. Enter Auth Info (optional) here.
5. Click Generate EPP.
6. EPP contact:info command has been generated and will display here.
7. Click Submit EPP Request.
8. EPP Response will display here.

Picture 13: VNNIC EPP Tool Contact Info screen.

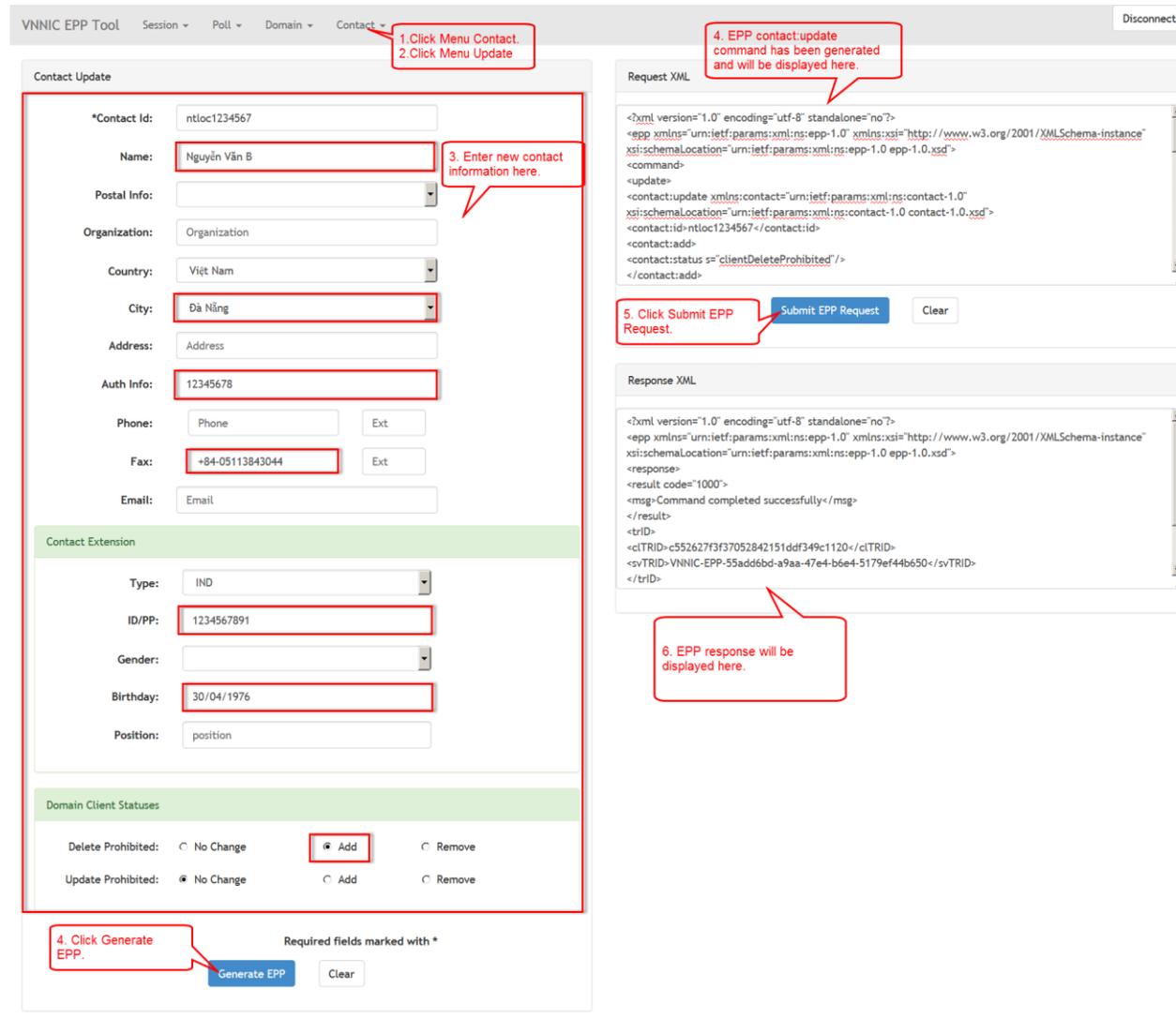
### 3.4. How to Update EPP contact

Example, registrar have a contact object with old information and they want to change some info of this contact as table below :

	<b>Old Info</b>	<b>New Info</b>
*Contact Id:	ntloc1234567	ntloc1234567
Name:	Nguyễn Văn A	Nguyễn Văn B
Postal Info:	LOC	LOC
Organization:	VNNIC	VNNIC
Country:	Việt Nam	Việt Nam
City:	Hà Nội	Đà Nẵng
Address:	Lô 21, đường số 7, KCN An Đồn, Sơn Trà	Lô 21, đường số 7, KCN An Đồn, Sơn Trà
Auth Info:	1234567	12345678
Phone:	+84-1234567890	+84-1234567890
Fax:		05113843044
Email:	ntloc@vnnic.vn	ntloc@vnnic.vn
Contact Extension		
Type:	IND	IND
ID/PP:	1234567890	1234567891

Gender:	Male	Male
Birthday:	30/04/1975	30/04/1976
Position:		
Domain Client Statuses		clientDeleteProhibited

Here is the step to update contact information:



Picture 14: VNNIC EPP Tool Contact Update screen.

**Note:** Registrar can not change name of contact object if it is used as a domain registrant. In this case, EPP server will response message “Data management policy violation”.

### 3.5. How to delete contact

The screenshot shows the VNNIC EPP Tool interface with a 'Contact Delete' form and XML output sections. The interface includes a top navigation bar with 'VNNIC EPP Tool', 'Session', 'Poll', 'Domain', and 'Contact' menus, and a 'Disconnect' button. The 'Contact Delete' form contains a text input for '\*Contact Id:' with the value 'ntloc123456', a 'Generate EPP' button, and a 'Clear' button. Below the form is the text 'Required fields marked with \*'. The 'Request XML' section displays an XML command for deleting a contact, and the 'Response XML' section displays the resulting XML response. Red callout boxes with numbers 1 through 7 provide step-by-step instructions: 1. Click Menu Contact. 2. Click Menu Delete. 3. Enter contact id here. 4. Click Generate EPP. 5. EPP contact:delete command has been generated and will display here. 6. Click Submit EPP Request. 7. EPP Response will display here.

VNNIC EPP Tool    Session ▾    Poll ▾    Domain ▾    Contact ▾    Disconnect

Contact Delte    3. Enter contact id here.    1. Click Menu Contact. 2. Click Menu Delete.

\*Contact Id:    ntloc123456

Required fields marked with \*

Generate EPP    Clear

4. Click Generate EPP.

5. EPP contact:delete command has been generated and will display here.

Request XML

```
<?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>
<delete>
<contact:delete xmlns:contact="urn:ietf:params:xml:ns:contact-1.0"
xsi:schemaLocation="urn:ietf:params:xml:ns:contact-1.0 contact-1.0.xsd">
<contact:id>ntloc123456</contact:id>
</contact:delete>
</delete>
<clTRID>8ec4c762e231c2f4ef60400cff0fc7cb</clTRID>
```

Submit EPP Request    Clear

6. Click Submit EPP Request .

Response XML

```
<?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">
<response>
<result code="1000">
<msg>Command completed successfully</msg>
</result>
<trID>
<clTRID>8ec4c762e231c2f4ef60400cff0fc7cb</clTRID>
```

7. EPP Response will display here.

Picture 15: VNNIC EPP Tool Contact Delete screen.

## 4. DOMAIN MODULE:

### 4.1. How to check domain names

The screenshot shows the 'Domain Check' interface of the VNNIC EPP Tool. The navigation bar includes 'VNNIC EPP Tool', 'Session', 'Poll', 'Domain', and 'Contact', with a 'Disconnect' button on the right. The 'Domain Check' section contains a text input field for '\*Domain Name(s):' with 'ntloc.danang.vn' entered. Below it is a list box containing the same domain name. 'Add' and 'Remove' buttons are positioned to the right of the list. At the bottom of this section are 'Generate EPP' and 'Clear' buttons. The 'Request XML' section displays the generated XML command, and the 'Response XML' section shows the resulting XML response. Red callout boxes with numbers 1 through 8 provide step-by-step instructions for each part of the process.

**1. Click Menu Domain.**  
**2. Click Menu Check.**  
**3. Enter domain name here.**  
**4. Click "Add".**  
**5. Click Generate EPP.**  
**6. EPP domain:check command has been generated and will display here.**  
**7. Click Submit EPP Request .**  
**8. EPP Response will display here.**

Picture 16: VNNIC EPP Tool Domain Check screen.

### 4.2. How to create domain name

The screenshot shows the 'Domain Create' interface of the VNNIC EPP Tool. The interface includes a top navigation bar with 'VNNIC EPP Tool', 'Session', 'Poll', 'Domain', and 'Contact' menus, and a 'Disconnect' button. The main area is divided into several sections:

- Domain Create Form:** Contains fields for '\*Domain Name:' (testepp1.com.vn), '\*Registration Period:' (1), '\*Auth Info:' (123456), and '\*Host Name(s):' (ns2.vnnic.vn). There are 'Generate Auth', 'Add', and 'Remove' buttons. A list of hostnames includes ns1.vnnic.vn and ns2.vnnic.vn.
- Contact Details:** A section with fields for '\*Registrant:', '\*Admin Contact:', '\*Tech Contact:', and '\*Billing Contact:', all containing the value 'ntloc12345'.
- Buttons:** 'Generate EPP' and 'Clear' buttons are located at the bottom left.
- Request XML:** A text area showing the generated XML command for domain creation.
- Response XML:** A text area showing the successful XML response from the server.

Numbered annotations (1-7) are placed over the interface to guide the user through the process:

1. Click Menu Domain.
2. Click Menu Create.
3. Input all required fields for domain create.
4. Click Generate EPP.
5. EPP domain:create command has been generated and will display here.
6. Click Submit EPP Request.
7. EPP Response will display here.

Picture 17: VNNIC EPP Tool Domain Create screen.

### 4.3. How to check domain info

The screenshot shows the 'Domain Info' section of the VNNIC EPP Tool. It includes a navigation bar at the top with 'Session', 'Poll', 'Domain', and 'Contact' dropdown menus, and a 'Disconnect' button. The main form contains two input fields: '\*Domain Name:' with the value 'testepp1.com.vn' and 'Auth Info:' with the value '123456'. Below these fields are 'Generate EPP' and 'Clear' buttons. To the right, the 'Request XML' section displays an XML command for domain info, with 'Submit EPP Request' and 'Clear' buttons below it. The 'Response XML' section at the bottom shows the resulting XML response. Eight red callout boxes provide step-by-step instructions: 1. Click Menu Domain. 2. Click Menu Info. 3. Enter domain name here. 4. Enter domain auth code (optional) here. 5. Click Generate EPP. 6. EPP domain:info command has been generated and will display here. 7. Click Submit EPP Request. 8. EPP Response will display here.

Picture 18: VNNIC EPP Tool Domain Info screen.

### 4.4. How to renew a domain

The screenshot shows the 'Domain Renew' interface of the VNNIC EPP Tool. The interface includes a navigation bar with 'Session', 'Poll', 'Domain', and 'Contact' menus, and a 'Disconnect' button. The main form contains three input fields: '\*Domain Name' (ntloc.danang.vn), '\*Registration Period' (2), and '\*Current Expiration Date' (03/10/2015). Below these fields are 'Generate EPP' and 'Clear' buttons. To the right, the 'Request XML' section displays the generated XML command, and the 'Response XML' section shows the successful response. Red callout boxes with numbers 1 through 7 provide step-by-step instructions for navigating the tool and submitting the request.

1. Click Menu Domain.  
2. Click Menu Renew.

3. Input all required fields.

4. Click Generate EPP.

5. EPP domain:renew command has been generated and will display here.

6. Click Submit EPP Request .

7. EPP Response will display here.

Picture 19: VNNIC EPP Tool Domain Renew screen.

### 4.5. How to update domain

The screenshot shows the 'Domain Update' interface of the VNNIC EPP Tool. The interface is divided into several sections:

- Domain Update Form:** Contains fields for '\*Domain Name:' (ntloc1.com.vn), 'Auth Info:' (123456), 'Add Host Name(s):' (ns4.vnnic.vn), and 'Remove Host Name(s):'. It includes 'Add' and 'Remove' buttons for each section.
- Domain Client Statuses:** A table with rows for 'Hold', 'Delete Prohibited', 'Renew Prohibited', 'Transfer Prohibited', and 'Update Prohibited'. Each row has radio buttons for 'No Change', 'Add', and 'Remove'.
- Contact Details:** Fields for 'Registrant', 'Admin Contact', 'Tech Contact', and 'Billing Contact', each with 'Add' and 'Remove' buttons.
- Request XML:** A text area showing the generated XML for the update command.
- Response XML:** A text area showing the received XML response.
- Buttons:** 'Submit EPP Request' and 'Clear' buttons are located between the XML sections. 'Generate EPP' and 'Clear' buttons are at the bottom.

Annotations on the screenshot:

1. Click Menu Domain, 2. Click Menu Update.
3. Enter arguments to update domain.
4. Click Generate EPP.
5. EPP domain:update has been generated and will be displayed here.
6. Click Submit EPP Request.
7. EPP response will be displayed here.

Picture 20: VNNIC EPP Tool Domain Update screen.

### 4.6. How to request transfer a domain

The screenshot shows the VNNIC EPP Tool interface with the following components and callouts:

- 1. Click Menu Domain.** and **2. Click Menu Transfer Request.** Point to the 'Domain' and 'Domain Transfer Request' menu items in the top navigation bar.
- 3. Enter all arguments for domain transfer request here.** Points to the form fields:
  - \*Domain Name:
  - Registration Period:
  - \*Auth Info:
- 4. Click Generate EPP.** Points to the 'Generate EPP' button.
- 5. EPP transfer request has been generated and will be displayed here.** Points to the 'Request XML' text area containing the following XML:
 

```
<?xml version="1.0" encoding="utf-8" standalone="no"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0 epp-1.0.xsd">
<command>
<transfer op="request">
<domain:transfer 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>ntloc2-09.vn</domain:name>
<domain:period unit="y">10</domain:period>
<domain:authInfo>
<domain:pw>123qwe!@#</domain:pw>

```
- 6. Click Submit EPP Request.** Points to the 'Submit EPP Request' button.
- 7. EPP response will be displayed here.** Points to the 'Response XML' text area containing the following XML:
 

```
<?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">
<response>
<result code="1001">
<msg>Command completed successfully; action pending</msg>
</result>
<resData>
<domain:trnData 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>ntloc2-09.vn</domain:name>

```

Picture 21: VNNIC EPP Tool Domain Transfer Request screen.

### 4.7. How to query a domain transfer

The screenshot displays the VNNIC EPP Tool interface with the following components and annotations:

- Top Navigation:** VNNIC EPP Tool, Session, Poll, Domain, Contact, Disconnect.
- Domain Transfer Query Form:**
  - \*Domain Name:
  - Auth Info:
  - Buttons: Generate EPP, Clear
- Request XML:**

```
<?xml version="1.0" encoding="utf-8" standalone="no"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0 epp-1.0.xsd">
<command>
<transfer op="query">
<domain:transfer 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>ntloc2-09.vn</domain:name>
</domain:transfer>
</transfer>
<clTRID>98b809d87cf9f18518d577c3d93d6b38</clTRID>
```
- Response XML:**

```
<response>
<result code="1000">
<msg>Command completed successfully</msg>
</result>
<resData>
<domain:trnData 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>ntloc2-09.vn</domain:name>
<domain:trStatus>pending</domain:trStatus>
<domain:reID>ntloc1</domain:reID>
```

**Annotations:**

1. Click Menu Domain.
2. Click Menu Transfer Query.
3. Enter all arguments for domain transfer query here.
4. Click Generate EPP.
5. EPP transfer:query has been generated and will be displayed here.
6. Click Submit EPP Request.
7. EPP response will be displayed here.

Picture 22: VNNIC EPP Tool Domain Transfer Query screen.

### 4.8. How to approve a domain transfer

The screenshot shows the 'Domain Transfer Approve' interface. At the top, there are navigation menus for 'Session', 'Poll', 'Domain', and 'Contact', along with a 'Disconnect' button. The main form contains a text input for '\*Domain Name:' with the value 'ntloc2-09.vn'. Below the input is a note 'Required fields marked with \*'. There are two buttons: 'Generate EPP' and 'Clear'. To the right, the 'Request XML' section displays the generated XML code, and below it are 'Submit EPP Request' and 'Clear' buttons. At the bottom, the 'Response XML' section shows the server's response XML. Red callout boxes with numbers 1 through 7 provide step-by-step instructions: 1. Click Menu Domain. 2. Click Menu Transfer Query. 3. Enter argument for domain transfer approve here. 4. Click Generate EPP. 5. EPP transfer:approve has been generated and will be displayed here. 6. Click Submit EPP Request. 7. EPP response will be displayed here.

Picture 23: VNNIC EPP Tool Domain Transfer Approve screen.

### 4.9. How to reject a domain transfer

The screenshot displays the VNNIC EPP Tool interface for performing a domain transfer reject. The top navigation bar includes 'Session', 'Poll', 'Domain', and 'Contact' menus. The main area is titled 'Domain Transfer Reject' and contains a form with the following fields:

- \*Domain Name:** ntloc2-06.vn
- \*Reason:** For testing domain transfer reject.

Below the form are two buttons: 'Generate EPP' and 'Clear'. A note indicates 'Required fields marked with \*'. To the right, the 'Request XML' section shows the generated XML payload:

```
<?xml version="1.0" encoding="utf-8" standalone="no"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0 epp-1.0.xsd">
<command>
<transfer op="reject">
<domain:transfer 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>ntloc2-06.vn</domain:name>
</domain:transfer>
</transfer>
<clTRID>17294834a64e4b70ea087423c6f3503b</clTRID>
```

Below the XML is a 'Submit EPP Request' button and a 'Clear' button. The 'Response XML' section shows the resulting XML response:

```
<result code="1000">
<msg>Command completed successfully</msg>
</result>
<resData>
<domain:trnData 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>ntloc2-06.vn</domain:name>
<domain:trStatus>clientRejected</domain:trStatus>
<domain:reID>ntloc1</domain:reID>
<domain:reDate>2014-10-08T21:20:31.0925</domain:reDate>
<domain:acID>ntloc2</domain:acID>
```

Red callout boxes provide the following instructions:

1. Click Menu Domain.
2. Click Menu Transfer Reject.
3. Enter all arguments for Domain transfer reject.
4. Click Generate EPP.
5. EPP transfer:reject has been generated and will be displayed here.
6. Click Submit EPP Request.
7. EPP response will be displayed here.

Picture 24: VNNIC EPP Tool Domain Transfer Reject screen.

#### 4.10. How to cancel a domain transfer

The screenshot shows the VNNIC EPP Tool interface for canceling a domain transfer. The interface includes a top navigation bar with 'VNNIC EPP Tool', 'Session', 'Poll', 'Domain', and 'Contact' menus, and a 'Disconnect' button. The main content area is titled 'Domain Transfer Cancel' and contains a form with a text input field for '\*Domain Name:' containing 'ntloc2-06.vn'. Below the input field is a note 'Required fields marked with \*'. There are two buttons: 'Generate EPP' and 'Clear'. To the right, there is a 'Request XML' section with a text area containing XML code and a 'Submit EPP Request' button. Below that is a 'Response XML' section with a text area containing XML code. A 'Disconnect' button is located in the top right corner.

1. Click Menu Domain.  
2. Click Menu Transfer Cancel.

3. Enter argument for domain transfer cancel here.

4. Click Generate EPP.

5. EPP transfer:cancel has been generated and will be displayed here.

6. Click Submit EPP Request.

7. EPP response will be displayed here.

```
<?xml version="1.0" encoding="utf-8" standalone="no"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:ietf:params:xml:ns:epp-1.0 epp-1.0.xsd">
<command>
<transfer op="cancel">
<domain:transfer 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>ntloc2-06.vn</domain:name>
</domain:transfer>
</transfer>
<clTRID>62bc9c1c8f0fbcbe6dcabd879deefce</clTRID>

```

```
<?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">
<response>
<result code="1000">
<msg>Command completed successfully</msg>
</result>
<resData>
<domain:trnData 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>ntloc2-06.vn</domain:name>

```

Picture 25: VNNIC EPP Tool Domain Transfer Cancel screen.

## 5. POLL MODULE:

### 5.1. How to request message poll

In SRS system, VNNIC provides a queue for the registrar to hold all notification messages :

- If there is any change in the contact or domain object to be managed by registrar.
- When gaining registrar sends a Registrar Transfer Request to losing registrar.
- When registrar inserts deposit.

Registrar must read and process all messages in the message queue to ensure synchronization between VNNIC's database and registrar's database . Here is the step to request message poll at the top of the queue.

The screenshot shows the VNNIC EPP Tool interface. At the top, there is a navigation bar with 'VNNIC EPP Tool', 'Session', 'Poll', 'Domain', and 'Contact' menus. A 'Disconnect' button is in the top right. Below the navigation bar is a 'Form Section' with a dropdown menu showing 'Request' and 'Acknowledge'. A red callout box points to the 'Request' menu with the text: '1. Click Menu Poll. 2. Click Menu Request'. To the right of the 'Form Section' is a 'Request XML' text area containing the following XML code:

```
<?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>
<poll op="req"/>
<clTRID>5b58ea0637c060dcd7b5afbb13e22e79</clTRID>
</command>
</epp>
```

A red callout box points to this XML code with the text: '3. EPP poll request command has been generated and will be displayed here.' Below the 'Request XML' area are two buttons: 'Submit EPP Request' (blue) and 'Clear' (white). A red callout box points to the 'Submit EPP Request' button with the text: '4. Click Submit EPP Request.' Below the buttons is a 'Response XML' text area containing the following XML code:

```
<?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">
<response>
<result code="1301">
<msg>Command completed successfully; ack to dequeue</msg>
</result>
<msgQ count="4" id="REGISTRY-489737">
<qDate>2014-10-07T22:41:33.0364</qDate>
<msg>DOMAIN=testepp1.com.vn; ROID=DOMAIN-1536337; ACTION=update; ACTIONBY=registry;
ACTIONDATE=2014-10-07T22:41:33.0361; NOTE=</msg>
```

A red callout box points to this XML code with the text: '5. EPP response will be displayed here.'

Picture 26: VNNIC EPP Tool Poll Request screen.

## 5.2. How to Acknowledge message poll

After finish process one message in the queue , the registrar must send one ack message to confirm they have read and processed the message .

VNNIC EPP Tool    Session ▾    Poll ▾    Domain ▾    Contact ▾    Disconnect

Poll Acknowledge

Request  
Acknowledge

\*Message ID:

Required fields marked with \*

Generate EPP    Clear

Request XML

```
<?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>
<poll msgID="REGISTRY-489737" op="ack"/>
<clTRID>27e55cc89fe64c7039c3c28de321ea07</clTRID>
</command>
</epp>
```

Submit EPP Request    Clear

Response XML

```
<?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">
<response>
<result code="1000">
<msg>Command completed successfully</msg>
</result>
<trID>
<clTRID>27e55cc89fe64c7039c3c28de321ea07</clTRID>
<svTRID>VNNIC-EPP-86937d47-178a-4c5d-987d-e6dd39233e14</svTRID>
</trID>
```

1. Click Menu Poll.  
2. Click Menu Acknowledge

3. Enter message ID here.

4. Click Generate EPP.

5. EPP poll request command has been generated and will be displayed here.

6. Click Submit EPP Request.

7. EPP response will be displayed here.

Picture 27: VNNIC EPP Tool Poll Acknowledge screen.

**Note:** The Registrar can get message ID by send a message poll request command to EPP Server.