

NICENIC DOMAIN API Reference

Domain handling

Version 2.3.0.5
July 8, 2015

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1. Introduction

This manual describes the API commands for DOMAIN handling.

The manual arranges the commands into the following order:

- Domain management commands,
- Contact management commands,
- Nameserver management commands

If there are any errors or missing topics, please don't hesitate to contact us!

2. API Environment

Nicenic API is based on HTTP & POST

Production Environment: <http://api.nicenic.com/>

API Call is only available for Nicenic Resellers.

Test Server Environment: <http://apitest.nicenic.com/>

Use following parameters to connect to Test Server Environment:

Username: testapi

Password: 123456

Email: test@nicenic.com

3. Parameter Description

3.1 Public Parameters

The character set of all parameters is **GB2312**

The following parameters must be provided when accessing API, otherwise Server will return error messages directly.

No.	Parameter	Description	Type	Remark
1	userid	Username of the user account	Constant(6-30 characters)	Username of the User Account

2	userstr	md5(userid Account password email vtime)	Constant(3 2 characters)	MD5: API encryption function Username of the User Account Password of the User Account Email of the User Account Vtime includes 12 characters If current time=2006-08-30 08:15 Then vtime=200608300815 userstr: 32-character string after the sequentially connected 4 values encrypted by MD5
3	category	domain	Constant	Product category
4	action	Operation	Constant	Different function, different value, as described in more details below.
5	vtime			Vtime includes 12 characters If current time=2006-08-30 08:15 Then vtime=200608300815 GMT+08:00 as Default

3.2 Action Parameters

According to different function, choose different action value. One API Call, one action.

3.2.1 Domain

3.2.1.1 Domain Registration

action=activate

Detailed parameter list (all parameters are in lowercase):

(This action is NOT free.)

Parameter	Description	Type	Remark
domain	standard domain name	String (3-60)	i.e. nicenic.com
domainpwd	domain password	String (3-16)	alphabetic characters, numbers only for domain management
vyear	registration term	Integer	
dns1	primary nameserver	server address	default dns1: ns1.ndns.cn
dns2	secondary nameserver	server address	default dns2: ns2.ndns.cn

productid	cn com cnch comch name mobi biz info cc tv ccch tvch sh ac io vc ag hn com.tw biz gov.cn aero am at be bz ca cd ch cl cx cz de dk	Constant	cn: English.CN com: Generic gTLD(com,net,org) cnch: Chinese.CN/中国 comch: Chinese Internationalized Domain Name name: .name mobi: .mobi biz: .biz info: .info cc: .cc tv: .tv ccch: Chinese.cc tvch: Chinese.tv sh: ccTLD .sh ac: ccTLD .ac io: ccTLD .io vc: ccTLD .vc ag: ccTLD .ag hn: ccTLD .hn com.tw: ccTLD .com.tw biz: Chinese.biz gov.cn: China TLD .gov.cn aero: gTLD .aero am: ccTLD .am at: ccTLD .at be: ccTLD .be bz: ccTLD .bz ca: ccTLD .ca cd: ccTLD .cd ch: ccTLD .ch cl: ccTLD .cl cx: ccTLD .cx cz: ccTLD .cz de: ccTLD .de sh: ccTLD .sh
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Productid	eu es fm fr gd gs im it jp kr li md ms mu ng nl nu pl ro ru se sg tc tk tl to vg in jobs la mn sc travel lc cm co me tel		eu: ccTLD .eu es: ccTLD .es fm: ccTLD .fm fr: ccTLD .fr gd: ccTLD .gd gs: ccTLD .gs im: ccTLD .im it: ccTLD .it jp: ccTLD .jp kr: ccTLD .kr li: ccTLD .li md: ccTLD .md ms: ccTLD .ms mu: ccTLD .mu ng: ccTLD .ng nl: ccTLD .nl nu: ccTLD .nu pl: ccTLD .pl ro: ccTLD .ro ru: ccTLD .ru se: ccTLD .se sg: ccTLD .sg tc: ccTLD .tc tk: ccTLD .tk tl: ccTLD .tl to: ccTLD .to vg: ccTLD .vg in: ccTLD .in jobs: gTLD .jobs la: ccTLD .la mn: ccTLD .mn sc: ccTLD .sc travel: gTLD .travel lc: ccTLD .lc cm: ccTLD .cm co: ccTLD .co me: gTLD .me tel: gTLD .tel
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Registrant contact Beginning

name	Registrant name	String (1-16)	space required between words
organization	organization/company name	String (1-255)	
state	province/state	String (1-255)	
address	mailing address	String (1-255)	

city	city acronym	String (1-255)	
postcode	post code/zip code	Integer (6)	
country	Country acronym	String (2)	i.e. CN for China
phone	+Country code.district code and phone number	"." to separate numbers (30)	Fixed format, i.e. +86.07568298700
fax	+Country code.district code and fax number	"." to separate numbers (30)	
email	Email address	String	standard Email address including "@"
Registrant contact End			
<p>The following 3 contacts, repeat Registrant contact parameters please: Administrative contact: add "a_" before Registrant contact parameters Billing contact: add "b_" before Registrant contact parameters Technical contact: add "t_" before Registrant contact parameters</p> <p>OR use the follow sharing mode:</p>			
admin_same_as	Administrative contact sharing mode	1 or 2	1: same as Nicenic's 2: same as Registrant's
tech_same_as	Technical contact sharing mode	1or 2 or 3	1: same as Nicenic's 2: same as Registrant's 3: same as Administrative's
bill_same_as	Billing contact sharing mode	1 or 2 or 3 or 4	1: same as Nicenic's 2: same as Registrant's 3: same as Administrative's 4: a

Description:

A. Domain Contacts include:

Registrant contact, Administrative contact, Billing contact, Technical contact

Registrant contact is required, other contacts can be either same as Registrant's or separate(only needs to add "a_" before Registrant contact parameters.)

For example:

a_ address=Xiangzhou Zhuhai Guangdong

a_name=Nicenic

If Administrative contact is same as Registrant's, set admin_same_as as 2.

Fox example:

admin_same_as=2

B. If admin_same_as, tech_same_as or bill_same_as was assigned, it's not necessary to fill in each contact parameter value.

3.2.1.2 Modify Contact

action= chgcontact

(This action is FREE.)

Detailed parameter list:

Parameter	Description	Type	Remark
domain	standard domain name	String (3-60)	
changetype	0: Registrant 1: Administrative contact 2: Billing contact 3: Technical contact		One contact modification per time.
name	contact name	String (1-16)	
organization	organization/company name	String (1-255)	domain owner
address	mailing address	String (1-255)	
city	city name	String (1-255)	
state	province/state name	String (1-255)	
postcode	post code/zip code	Integer	
country	Country acronym	String (2)	i.e. CN for China
phone	+Country code.district code and phone number	"." to separate numbers (30)	Fixed format, i.e.+86.07568298700
fax	+Country code.district code and fax number	"." to separate numbers (30)	Fixed format, i.e. +86.07568298700
email	Email address	standard Email address including "@"	

3.2.1.3 Domain Renewal

action= renew

(This action is NOT free.)

Detailed parameter list:

Parameter	Description	Type	Remark
domain	domain name		standard domain name
deaddate	expiry date after renewal	Date	i.e. domain expiry date: 2007-10-10, renew for 1 year, then deaddate=2008-10-10
vyear	domain renewal term	Integer	

3.2.1.4 Modify Nameserver

action=chgdns

(This action is FREE.)

Detailed parameter list:

Parameter	Description	Type	Remark
domain	domain name		standard domain name
dnshost01	primary nameserver	server address	default dns1: ns1.ndns.cn
dnshost02	secondary nameserver	server address	default dns2: ns2.ndns.cn

3.2.1.5 Modify Domain Password

action=chgpwd

(This action is FREE.)

Detailed parameter list:

Parameter	Description	Type	Remark
domain	domain name		standard domain name
domainpwd	domain password	String (1-16)	

3.2.1.6 Get Domain Information

action = **getdomaininfo**

(This action is FREE.)

Parameter	Description	Type	Remark
domain	domain name	Character	i.e. nicenic.com

Description of domain information:

```

<?xml version="1.0" encoding="gb2312" ?>
<property xmlns="urn:sap:nicenic:params:xml:ns:sap-0.0.1">
<returncode>200</returncode> //return status code
<domain>test2007-06-14.cn</domain> //domain name
<sucdate>2007-06-14</sucdate> //domain creation date
<deaddate>2008-06-14</deaddate> //domain expire date
<domainpwd>q1w2e3r4</domainpwd> //domain password
<dns1>ns1.ndns.cn</dns1> //primary nameserver
<dns2>ns2.ndns.cn</dns2> //secondary nameserver

<city>ZH</city> //city
<state>100011</state> //province
<address_zh>Xiangzhou Zhuhai Guangdong</address_zh>
//mailing address
<name>Nnicenic</name> //registrant name
<organization_zh>Nnicenic.net, Inc.</organization_zh>
//organization/company name
<postcode>100011</postcode> //post code/zip code
<country>CN</country> //country acronym
<phone>+86.07568298700</phone> //telephone number
<fax>+86.07568298700</fax> //facsimile number
<email>admin@nicenic.net</email> //email address
<a_firstname>Nnicenic</a_firstname>
<a_lastname>Nnicenic</a_lastname>
<a_city>ZH</a_city>
<a_state>100011</a_state>
<a_address_zh>Xiangzhou Zhuhai Guangdong</a_address_zh>

```

```

<a_name>Nicenic</a_name>
<a_organization_zh>Nicenic.net, Inc.</a_organization_zh>
<a_ccity>ZH</a_ccity>
<a_cstate>100011</a_cstate>
<a_postcode>100011</a_postcode>
<a_country>CN</a_country>
<a_phone>+86.07568298700</a_phone>
<a_fax>+86.07568298700</a_fax>
<a_email>admin@nicenic.net</a_email>
<tech_same_as>2</tech_same_as> //technical contact sharing mode
<bill_same_as>2</bill_same_as> //billing contact sharing mode
</property>

```

3.2.1.7 Domain Resolution

Domain resolution includes getting current resolution records, added resolution records, modification, deletion.

Read-only and unable to be deleted or modified records include SOA, NS with id=0.

Records able to be deleted or modified include A, MX, CNAME, URL Forwarding.

3.2.1.7.1 Get Domain Resolution Record

action= query_rr

(This action is FREE.)

Parameter	Description	Type	Remark
domain	domain name		standard domain name

3.2.1.7.2 Add Domain Resolution Record

action= add_rr

(This action is FREE.)

Parameter	Description	Type	Remark
domain	domain name		standard domain name
rr	resource record value	Character (20)	i.e. ftp,www,mx etc, can be null, "*" represents extensive domain.
type	Record types:	Constant	Record types:

	a mx cname url url_hidden		A: IP address MX: same form as CNAME's CNAME record URL forwarding record URL hidden forwarding record
value	record value	Character	i.e. 218.30.103.28 http://www.nicenic.com/ etc.
pri	i.e. 5	Integer (2)	pri only available when type=mx; type=mx represents Priority, and smaller value, higher priority

Description of Domain Resolution Record codes:

```
<?xml version="1.0" ?>
<property>
  <returncode>200</returncode>           //correct command request
  <sucdate>20070608</sucdate>          //request for date
</info>
<record>
  <type>SOA</type>
  <id>1157726</id>
  <name>20060830.cn</name>
  <value>ns1.ndns.cn</value>
  <ttl />
  <prio />
</record>
</info>
</property>
```

Note: among the returned xml node above:

```
<info>
< record >
</ record >
.....
</info>
```

Record represents each resolution record; **Type** represents different record types. The node names and values are listed below:

SOA represents SOA record;

A represents A record, namely IP address;

MX represents MX record, namely mail exchange record;

CNAME represents CNAME record;

URL represents URL forwarding record;

URL_HIDDEN represents URL hidden forwarding record;

id represents ID record;
name represents RR value & domain, i.e. www.nicenic.com, mail.s801.com;
values represents the corresponding resource address, i.e. IP, domain;
ttl represents cache time in DNS server;
prio represents priority

3.2.1.7.3 Delete Domain Resolution Record

action =del_rr

(This action is FREE.)

Parameter	Description	Type	Remark
domain	domain name		standard domain name
rr_id	resource record ID	Integer (1-10)	Returned XML by query, i.e.: <record> <id> 7276826 </id> </record> namely rr_id= 7276826

3.2.1.7.4 Modify Domain Resolution Record

action = **modify_rr**

(This action is FREE.)

Parameter	Description	Type	Remark
domain	domain name		standard domain name
rr_id	resource record ID	Integer (1-10)	standard domain name
type	record type	Constant	standard domain name
value	record value	Character	standard domain name
pri	priority	Integer (1-2)	standard domain name
ttl			convey original value

3.2.1.7.5 Restart DNS Server

action = **restart_rr**

Action of restarting DNS server is required to make DNS "Add", "Delete", "Modify" take effect.

(This action is FREE.)

Parameter	Description	Type	Remark
domain	domain name		standard domain name

3.2.1.8 Check Domain Availability

action = **check**

(This action is FREE.)

Parameter	Description	Type	Remark
query	Domain Prefix	Character	i.e. nicenic
suffix	Domain Suffix (part multi suffixes by comma)	Character	i.e. .com, .net, .cn

Description of Returned Result:

```
<?xml version="1.0" encoding="gb2312" ?>
<property xmlns="urn:sap:nicenic:params:xml:ns:sap-2.2.0">
<returncode>200</returncode>    // correct request command
<domain>test2006-8-20.com:true</domain>    // part by comma, domain
name first, query status next
<domain>test2006-8-20.net:false</domain>    // "true" means "domain
available", "false" means "domain not available"
<domain>test2006-8-20.cn:error</domain>    // "error" means query failed
<alldomain>test2006-8-20.com:true,test2006-8-20.net:true,test2006-8-20.c
n:true</alldomain>
</property>
```

3.3 Service Actions

3.3.1 Service Re-submit

action = **rs_againrequest**

(Note: public parameter category=all)

Function Description:

Service Re-submit is available for returning "pending process" to get the latest service status. Please be noted to do Re-submit 10 minutes after first-time request and repetitive Re-submits will be applicable till final success or failure when the service is under pending process.

Parameter	Description	Type	Remark
domain	standard domain name	Character	i.e. nicenic.com
action_old productclassid	service re-submit action service category: domain means domain service	Character Character	i.e.: activate,renew

Return XML:

```
<?xml version="1.0" ?>
<property>
<returncode>200</returncode>           //correct command request
<orderid>12345</orderid>              //service order number
<domain>nicenic.com</domain>         //domain name
<productclassid>domain</productclassid > //service category
<bizstatus>successful</bizstatus>    //current service status: successful,
failed or pending process
<failreason>...</failreason>        //reason of 'failed' or 'pending
process'
<sucdate>2008-03-01</sucdate>        //creation date
<deaddate>2011-05-16</deaddate>     //expire date
</property>
```

3.3.2 Get Account Balance

action = **finance_money**

(Note: public parameter category=all)

Function Description: display user account's available balance in RMB/CNY.

Parameter	Description	Type	Remark
Null			

Return XML:

```
<?xml version="1.0" ?>
<property>
  <returncode>200</returncode>          //correct command request
  <prepay>2000</prepay>                //prepayment
</property>
```

4. Response Codes

4.1 Return Successful

Return by XML, including creation code, creation date, expire date

When returncode=200, it represents "return successful":

Content-type:text/xml

```
<?xml version="1.0" ?>
<property>
  <returncode>200</returncode>
  <sucdate>20060516</sucdate>
  <deaddate>2011-05-16</deaddate>
  .....
</property>
```

4.2 Return in Pending Process, Awaiting Success

Return by XML, including pending process code, reason

When returncode=210, it represents "return in pending process":

Content-type:text/xml

```
<?xml version="1.0" ?>
```

```
<property>
<returncode>210</returncode>
<failreason>...</failreason>
</property>
```

4.3 Return Failed

Return by XML, including failure code and reason

When returncode=300, it represents "submit failed":
Content-type:text/xml

```
<?xml version="1.0" ?>
<property>
<returncode>300</returncode>
<failreason>...</failreason>
</property>
```

5. Sample Application

5.1 English.CN Domain Registration

Parameters as follows:

```
userid=test123
vtime= 200706121540
userstr=e10adc3949ba59abbe56e057f20f883e
```

```
category=domain
action=activate
productid=cn
domain=test2007-06-121.cn
domainpwd=q1w2e3r4
vyear=1
dns1=ns1.ndns.cn
dns2=ns2.ndns.cn
```

```
address_zh=Xiangzhou Zhuhai Guangdong
name=Nicenic.net, Inc.
```

organization_zh=Nicenic.net, Inc.
manager=Nicenic
ccity=Zhuhai
cstate=Guangdong
address_en=ZhuHai, GuangDong
city=ZH
state=GD
postcode=519000
country=CN
phone=86-07568298700
fax=86-07568298700
email=admin@nicenic.net

admin_same_as=2
tech_same_as=2
bill_same_as=2

Return result:

```
<property>  
<returncode>200</returncode>           //return code  
<sucdate>20060516</sucdate>           //creation date  
<deaddate>2007-05-16</deaddate>       //expire date  
</property>
```

5.2 Generic gTLD Domain Registration

Parameters as follows:

userid=test123
vtime= 200706121540
userstr=e10adc3949ba59abbe56e057f20f883e

category=domain
action=activate
productid=com
domain=test2007-06-121.com
domainpwd=q1w2e3r4
vyear=1
dns1=ns1.ndns.cn
dns2=ns2.ndns.cn
address_zh=Xiangzhou Zhuhai Guangdong
name=Nicenic.net, Inc.
organization_zh=Nicenic.net, Inc.
manager=Nicenic

ccity=Zhuhai
cstate=Guangdong
city=ZH
state=GD
postcode=519000
country=CN
phone=86-07568298700
fax=86-07568298700
email=admin@nicenic.net

a_address_zh=Xiangzhou Zhuhai Guangdong
a_name=Nicenic.net, Inc.
a_organization_zh=Nicenic.net, Inc.
a_ccity=Zhuhai
a_cstate=Guangdong
a_city=ZH
a_state=GD
a_postcode=519000
a_country=CN
a_phone=86-07568298700
a_fax=86-07568298700
a_email=admin@nicenic.net

t_address_zh=Xiangzhou Zhuhai Guangdong
t_name=Nicenic.net, Inc.
t_organization_zh=Nicenic.net, Inc.
t_ccity=Zhuhai
t_cstate=Guangdong
t_city=ZH
t_state=GD
t_postcode=519000
t_country=CN
t_phone=86-07568298700
t_fax=86-07568298700
t_email=admin@nicenic.net

b_address_zh=Xiangzhou Zhuhai Guangdong
b_name=Nicenic.net, Inc.
b_organization_zh=Nicenic.net, Inc.
b_ccity=Zhuhai
b_cstate=Guangdong
b_city=ZH
b_state=GD
b_postcode=519000

b_country=CN
b_phone=86-07568298700
b_fax=86-07568298700
b_email=admin@nicenic.net

Return result:

```
<property>  
<returncode>200</returncode>  
<sucdate>20060516</sucdate>  
<deaddate>2007-05-16</deaddate>  
</property>
```

5.3 Generic gTLD Domain Renewal

Parameters as follows:

userid=test123
userstr=e10adc3949ba59abbe56e057f20f883e
category=domain
productid=com
action=renew

domain=test123.com
deaddate=2009-06-08
vyear=1

Return result:

```
<property>  
<returncode>200</returncode>  
<sucdate>20070517</sucdate>  
<deaddate>2009-06-08</deaddate>  
</property>
```

6. Error Codes

e001: API network anomaly
0000: ID authentication failed
0001: Wrong parameter transmission

0002: Insufficient prepayment
0005: category illegal parameter
0006: action illegal parameter
0007: category illegal parameter
0008: no product found