

# **NICENIC SSL API Intergration**

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## Preface

This document describes the API interface protocol for NiceNic Products. This document describes the basic data exchange standards, including data formats, data definitions, and some related conventions.

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## 1. API interface address

The interface adopts HTTP and POST protocol:

API URL: <http://api.nicenic.com/api.php>

## 2. Parameter Description

### 2.1 Common parameters

**Note: All parameter character sets are UTF-8**

The following parameters **must** be provided when accessing the interface, otherwise the server will directly return an error message.

Number	name	explain	Type (length)	Remarks
1	Userid	Nike Smart Member Name	Constant (6-30 characters)	Nicenic User Name
2	Userstr	Md5 ( Userid API password Email Vtime )	Constant (32-bit characters)	MD5, API authentication function Naisi Smart member username API password (different from member password) email (member email)  Vtime is 12 characters For example, the current time is August 30, 2006 at 8:15 am vtime=200608300815 . The four values are concatenated in order, and after processing with the md5 function, the userstr value is a 32-bit string.
3	Category	SSL	constant	The product category is SSL certificate
		All		Business operations, not specific product categories
4	Action	Operational behavior	constant	Provide different values based on different functions, as detailed below.
5	Vtime			Vtime is 12 characters For example, the current time is August 30,

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				2006 at 8:15 am vtime=200608300815 Note: The server time is the same as Beijing time
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## 2.2 Behavior parameters (action)

Choose different **behavior values based on different functions**, and **only one behavior can be selected per call.**

### 2.2.1 SSL certificate

#### 2.2.1.1 SSL certificate purchase

**action=activate**

**(This operation is chargeable)**

Parameter Name	explain	Type (length)	Remarks
productid	comodo-positivessl (PositiveSSL DV SSL certificate) comodo-ssl(Sectigo DV SSL certificate) comodo-positivessl-wildcard (PositiveSSL DV wildcard SSL certificate) comodo-ev-ssl-certificate	character	Required. More product parameter names can be found at the end of this document.  Please contact our company for the latest information.
vyear	Purchase period	number	Between 1-5 years, mandatory
domain	domain name	character	Certificate domain name, with formatted verification, required. If it is a multi domain certificate, the domain name is composed of lowercase commas, such as test.com,abc.com
company	Company Name	character	Required
contact	contacts	character	Required
province	Provinces, such as HK	character	Required
city	Cities such as HK	character	Required

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address	Address, such as "Xiangzhou District, HK"	character	Required
postcode	Postal code, such as 100000	character	Required
mobile	Mobile phone number, such as 13812345678	character	Required
email	email	character	Required
csr	Certificate signing request file	character	Default optional, the key can be generated and returned by the system
privatekey	Key file	character	Default can be left blank

### Display result description:

```
<?xml version="1.0" encoding="utf-8" ?>
  <property xmlns="urn:sap:nicenic:params:xml:ns:sap-2.2.0">
    <returncode>200</returncode>
    <sucdate>20201212</sucdate> Opening time 2021-12-12
    <deaddate>2021-12-12</deaddate>
    <caid>872</caid> Certificate ID, used for subsequent queries and
renewals
    <productid>comodo positivessl</productid> Certificate type
    <domain>dslsdf. com</domain> Certificate domain name
    <company>XXX Limited Company</company> Company Name Contact person
    <mobile>13727065608</mobile> Phone number
    <email>caiziq@test.com</email> Email
    <postcode>519000</postcode> Postal code Guangdong Province
    <city>Zhuhai</city> City
    <address>Xiangzhou District, Zhuhai City, Guangdong
Province</address>Address
    <method_type>CNAME_CSR_HASH</method_type> Verification method
    <status>1</status>Status : 1 is in
application, 2 is verified as passed
    <fileName>A79840C7633CDC751A9CDDDFD159A92D. txt</fileName> Verify file
name
    <content>80bd1520c90408d992fcfc63c6a97fafdcb7efcf33a8800c800b64a41d2cb7ab
Comodoca. com</content> Verify file content
    <host>_ A79840c7633cdc751a9cdddfd159a92d</host> Verify the host of DNS
    <value>80bd1520c90408d992fcfc63c6a97faf. dcb7efcf33a8800c800b64a41d2cb7ab.
comodoca. com</value> Verify the DNS value
    <type>CNAME</type> Verify the host method of
DNS
  </property>
```

## 2.2.1.2 SSL certificate renewal

**action=renew**

**(This operation is chargeable)**

Parameter Name	explain	Type (length)	Remarks
caid	Certificate ID	number	Choose between caid and domain
domain	Certificate Domain Name	character string	Choose between caid and domain
vyear	Purchase period	number	Between 1-5 years, mandatory
deaddate	Current certificate expiration time	date	To avoid duplicate renewals, the expiration date is required as evidence and must be filled in

Display result description:

```
<? XML version="1.0"?>
<property>
<returncode>200</returncode>
<caid>123</caid>                Certificate ID
<domain>testadmin</domain>    Domain name
<sucdate>2021-09-01</sucdate>
<deaddate>2021-10-01</deaddate>

</property>
```

## 2.2.1.3 Obtaining Certificate Information

**action=getinfo**

**(This operation is free of charge)**

Parameter Name	explain	Type (length)	Remarks
caid	Certificate ID	number	Choose between caid and domain
domain	Certificate Domain Name	character	Choose between caid and domain

Display result description:

```
<?xml version="1.0" encoding="utf-8" ?>
  <property xmlns="urn:sap:nicenic:params:xml:ns:sap-2.2.0">
    <returncode>200</returncode>
    <sucdate>20201212</sucdate>    Opening time
```

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<deaddate>2021-12-12</deaddate>  
<caid>872</caid> Certificate ID, used for subsequent queries and renewals  
<productid>comodo positivessl</productid> Certificate type  
<domain>ds1sdfd. com</domain> Certificate domain name  
<company>XXX Limited Company</company> Company Name  
<contactor>xx</contactor> Contact person  
<mobile>13727065608</mobile> Phone number  
<email>caiziq@test.com</email> Email  
<postcode>519000</postcode> Postal code  
Guangdong Province  
<city>Zhuhai</city> City  
<address>Xiangzhou District, Zhuhai City, Guangdong Province</address>Address  
<method\_type>CNAME\_CSR\_HASH</method\_type> Verification method  
<status>1</status>Status : 1 is in application, 2 is verified as passed  
<fileName>A79840C7633CDC751A9CDDDFD159A92D. txt</fileName> Verify file name  
<content>80bd1520c90408d992fcfc63c6a97fafdcb7efcf33a8800c800b64a41d2cb7ab Comodoca. com</content> Verify file content  
<host>\_ A79840c7633cdc751a9cdddfd159a92d</host> Verify the host of DNS  
<value>80bd1520c90408d992fcfc63c6a97faf. dcb7efcf33a8800c800b64a41d2cb7ab. comodoca. com</value> Verify the DNS value  
<type>CNAME</type> Verify the host method of DNS  
<certificate>xxx</certificate>PEM certificate (only available after successful verification)  
<privateKey>xxx</privateKey>Private key information (only available after successful verification)  
<caCertificate>xxx</caCertificate>PEM intermediate certificate (only available after successful verification)  
<jks>base64</jks>The base64 encoding of the jks certificate content (only available after successful verification)  
<jksPass>xxx</jksPass>The certificate password for jks (only available after successful verification)  
<pkcs12>base64</pkcs12>Base64 encoding of PKCS12 certificate content (only available after successful verification)  
<pkcsPass>xxx</pkcsPass>The certificate password for PKCS12 (only available after successful verification)  
</property>

## 2.2.1.4 SSL certificate file verification

**action=validateFile**

**(This operation is free of charge)**

Parameter Name	explain	Type (length)	Remarks
caid	Certificate ID	number	Choose between caid and domain
domain	Certificate Domain Name	character string	Choose between caid and domain

Display result description:

```
<?xml version="1.0" encoding="utf-8" ?>
  <property xmlns="urn:sap:nicenic:params:xml:ns:sap-2.2.0">
    <returncode>200</returncode>
    <caid>872</caid>
    <domain>dslsdfd. com</domain>
    <fileName>A79840C7633CDC751A9CDDDFD159A92D. txt</fileName>
    <content>80bd1520c90408d992fcfc63c6a97fafdcb7efcf33a8800c800b64a41d2cb7ab
Comodoca. com</content>
  </property>
```

## 2.2.1.5 SSL certificate DNS verification

**action=validateDNS**

**(This operation is free of charge)**

Parameter Name	explain	Type (length)	Remarks
caid	Certificate ID	number	Choose between caid and domain
domain	Certificate Domain Name	character string	Choose between caid and domain

Display result description:

```
<?xml version="1.0" encoding="utf-8" ?>
  <property xmlns="urn:sap:nicenic:params:xml:ns:sap-2.2.0">
    <returncode>200</returncode>
    <caid>872</caid>
    <domain>dslsdfd. com</domain>
    <fileName>A79840C7633CDC751A9CDDDFD159A92D. txt</fileName>
    <content>80bd1520c90408d992fcfc63c6a97fafdcb7efcf33a8800c800b64a41d2cb7ab
comodoca. com</content>
    <host>_ A79840c7633cdc751a9cdddfd159a92d</host>
    <value>80bd1520c90408d992fcfc63c6a97faf. dcb7efcf33a8800c800b64a41d2cb7ab.
comodoca. com</value>
```



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```
<type>CNAME</type>
</property>
```

### 2.2.1.6 SSL Certificate Domain Name Email Verification

**action=validateEmail**

**(This operation is free of charge)**

Parameter Name	explain	Type (length)	Remarks
caid	Certificate ID	number	Choose between caid and domain
domain	Certificate Domain Name	character string	If it is a multi domain certificate, this field is mandatory
email	Certificate email	character string	Can be left blank? If left blank, the address verified by the current email will be queried.  If filled in, the email must be admin@xxx.com administrator@xxx.com hostmaster@xxx.com postmaster@xxx.com webmaster@xxx.com Suffix the same as domain

Display result description:

```
<?xml version="1.0" encoding="utf-8" ?>
  <property xmlns="urn:sap:nicenic:params:xml:ns:sap-2.2.0">
    <returncode>200</returncode>
    <caid>872</caid>
    <domain>dslsfdf. com</domain>
    <domainEmail> admin@dslsfdf. com </domainEmail>
  </property>
```

### 2.2.1.7 SSL Certificate Unsubscribe

**action=cancel**

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**(This operation is free of charge)**

Parameter Name	explain	Type (length)	Remarks
caid	Certificate ID	number	Choose between caid and domain
domain	Certificate Domain Name	character string	Choose between caid and domain

SSL subscription can only be cancelled with the following status. They are: pending application, applying in progress, issued (issued within 15 days)

Display result description:

```
<?xml version="1.0" encoding="utf-8" ?>
<property xmlns="urn:sap:nicenic:params:xml:ns:sap-2.2.0">
  <returncode>200</returncode>
</property>
```

## 2.3 Business Operations

### 2.3.1 Account balance display

Action=**finance\_ Money** (note: common parameter category=all)

Function Description: Display available amounts under the account.

Parameter Name	explain	Type (length)	Remarks
nothing			

Request to return XML:

```
<?xml version="1.0" ?>
<property>
  <returncode>200</returncode>          200 ok
  <prepay>2000<prepay>                balance
</property>
```

## 2.4 Push notifications

After the certificate is issued, we can push information about the issued certificate to your system. This "push" mechanism allows you to receive certificate issuance information in real-time.

Push parameter information:

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Parameter Name	explain	Type (length)	Remarks
username	Authentication credentials, username.	character	Please log in to the Nike Control Center settings
password	Authentication credentials, password	character	Please log in to the Nike Control Center to set the password, which will be transmitted in plain text, so do not set your own commonly used password (Choose between this parameter and sign) Using MD5 signature, the signature format is as follows: <b>The+sign in the middle represents the connection and does not need to be placed in the signature. Password is the key</b> Md5 (username+timestamp+password+data)
sign	Verify signature	character	(Choose between this parameter and password)
timestamp	Current timestamp, China time zone	number	For example: 1641893206
data	JSON format data packet	character	This data packet contains the following content
<b>The following is the content of the data packet</b>			
caid	Nike Certificate ID	number	For example: 1234
statusCode	Status code	character	For example, in EN03 verification, please refer to the push status code at the bottom of this document for detailed status codes
method_type	Verification method, CNAME_CSR_HASH	character	When the status code is in verification, there may be
fileName	Verify file name	character	When the status code is in verification, there may be
content	Verify file content	character	When the status code is in verification, there may be
host	Verify the host of DNS	character	When the status code is in verification, there may be
value	Verify DNS values	character	When the status code is in verification, there may be
notBefore	The start time of the certificate validity	date	There is a status code when it is issued

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notAfter	period, for example: April 22, 2020 08:00 The end time of the certificate validity period, for example: 08:00 on April 22, 2021	date	There is a status code when it is issued
certificate	Pem format certificate	character	There is a status code when it is issued
caCertificate	Pem intermediate certificate	character	There is a status code when it is issued

Note: 1: You need to enable the "push" mechanism in the Nicenic Control Panel and configure your terminal URL and authentication information (username and password) for the terminal.

2: We will use POST to request your terminal URL. If we successfully request and receive the 'suc' string, the push will be successful, otherwise the push will fail. If the push fails, we will gradually continue to push you (with a maximum of 10 failures) until the push is successful. The first five push intervals are 120 seconds, and the last five push intervals are 30 minutes.

3: To ensure the normal progress of push, please do not restrict the IP address of the Nike server.

The push result is similar to the following:

```
Username=adfsdf&timestamp=1642243145&data={"caid": "871", "statusCode":
"EN03"}&sign=97f93e985ebf03bcbadfb7bc442afee9
```

### 3. Response code

#### 3.1. Successful Return

Return in XML, including success code, success date, and expiration date

Generally, when the return code is 200, it is considered a successful return

Content type: text/XML

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

### 3.2. Returning during processing, waiting for success

Return in XML, including processing code, reason

If the return code is 210, it is returned during processing

Content type: text/XML

```
<?xml version="1.0" ?>
<property>
<returncode>210</returncode>
<failreason>...</failreason>
</property>
```

### 3.3. Failure return, impossible to succeed

Return in XML, including failure code and reason

If the return code is 300, it indicates submission failure

Content type: text/XML

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

## 4. Application examples

### 4.1 SSL Certificate Subscription

The parameters are as follows:

userid=test123

vtime=200706121540

userstr=e10Adc3949ba59abe56e057f20f883e

category=ssl

action=activate

domain=test2021-09-092.cn

productid=comodo-positivessl

vyear=1

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company=XXX Information Technology Co., Ltd  
contact=Nike  
province=Guangdong  
city=Zhuhai  
address=Xiangzhou, Zhuhai, Guangdong  
postcode=519000  
mobile=13812345678  
email= admin@nicenic.net

### Return result (successful):

```
<?xml version="1.0" encoding="utf-8" ?>
<property xmlns="urn:sap:nicenic:params:xml:ns:sap-2.2.0">
  <returncode>200</returncode>
  <sucdate>20201212</sucdate>
  <deaddate>2021-12-12</deaddate>
  <caid>872</caid>
  <productid>comodo-positivessl</productid>
  <domain>dslsfdf.com</domain>
  <company>xxx compnay</company>
  <contactor>xxx</contactor>
  <mobile>13727065608</mobile>
  <email>caiziq@test.com</email>
  <postcode>519000</postcode>
  <province>gd</province>
  <city>zh</city>
  <address>xxx address</address>
  <method_type>CNAME_CSR_HASH</method_type>
  <status>1</status>
  <fileName>A79840C7633CDC751A9CDDDFD159A92D.txt</fileName>
  <content>80bd1520c90408d992fcfc63c6a97fafdcb7efcf33a8800c800b64a41d2cb7ab
  comodo.ca.com</content>
  <host>_a79840c7633cdc751a9cdddfd159a92d</host>
  <value>80bd1520c90408d992fcfc63c6a97faf.dcb7efcf33a8800c800b64a41d2cb7ab.comodo
  ca.com</value>
  <type>CNAME</type>
</property>
```

### Return result (failed):

```
<?xml version="1.0" encoding="gb2312" ?>
<property xmlns="urn:sap:nicenic:params:xml:ns:sap-2.2.0">
  <returncode>210</returncode>
  <failreason>0009: Processing returned, waiting for return</failreason>
</property>
```

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### 5. Parameter code

5.1 Product Parameters (For more product parameters, please contact our company)

Product Name				
Number	brand	Verification type	Product Name	Product number
1	Geotrust	Geotrust OV	Single domain certificate	geotrust-true-businessid
		Geotrust OV	Multi domain certificate (5 domains)	geotrust-true-businessid-multi-domain
		Geotrust OV	Wildcard certificate	geotrust-true-businessid-wildcard
		Geotrust EV	Single domain certificate	geotrust-true-businessid-with-ev
		Geotrust EV	Multi domain certificate (5 domains)	geotrust-true-businessid-multi-domain-with-ev
2	Digitert basic	Digitert OV	Single domain certificate	digicert-ssl-plus-ov
		Digitert OV	Wildcard certificate	digicert-ssl-plus-wildcard
		Digicert EV	Single domain certificate	digicert-ssl-plus-ev
3	GlobalSign	GlobalSign DV	Single domain certificate	globalsign-dv-ssl
		GlobalSign DV	Wildcard certificate	globalsign-domain-wildcard-ssl
		GlobalSign OV	Single domain certificate	globalsign-organization-ssl
		GlobalSign OV	Wildcard certificate	globalsign-organization-wildcard-ssl
		GlobalSign EV	Single domain certificate	globalsign-ev-ssl
4	Certum	Certum EV SSL Certificate	Single domain name	certum-ev-ssl
		Certum OV SSL Certificate	Single domain name	certum-ov-ssl
		Certum OV SSL Certificate	Wildcard certificate	certum-ov-wildcard-ssl
		Certum DV SSL Certificate	Single domain name	certum-dv-ssl
		Certum DV SSL	Wildcard certificate	certum-dv-wildcard-ssl

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		Certificate		
5	CFCA	CFCA EV SSL Certificate	Single domain name	cfca-ev
		CFCA OV SSL Certificate	Single domain name	cfca-ov
		CFCA OV SSL Certificate	Wildcard certificate	cfca-ov-wildcard
6	Comodo	PositiveSSL DV SSL Certificate	Single domain name	comodo-positivessl
		PositiveSSL DV SSL Certificate	Wildcard certificate	comodo-positivessl-wildcard
		Sectigo DV SSL Certificate	Single domain name	comodo-ssl
		Sectigo EV SSL Certificate	Single domain name	comodo-ev-ssl-certificate

comodo-positivessl Positive SSL Domain Name Basic Edition  
 comodo-ssl Comodo SSL Domain Name Regular Version  
 comodo-positivessl-wildcard domain name wildcard version  
 comodo-ev-ssl-certificate EV SSL Enterprise Enhanced Edition  
 geotrust-true-businessid GeoTrust OV SSL certificate  
 geotrust-true-businessid-multi-domain GeoTrust OV multi domain SSL certificate  
 geotrust-true-businessid-wildcard GeoTrust OV wildcard SSL certificate  
 geotrust-true-businessid-with-ev GeoTrust EV SSL certificate  
 geotrust-true-businessid-multi-domain-with-ev EV Multi Domain SSL Certificate  
 digicert-ssl-plus-ov Digicert OV SSL Certificate  
 digicert-ssl-plus-wildcard Digitert OV wildcard SSL certificate  
 digicert-ssl-plus-ev Digicert EV SSL Certificate  
 cfca-ev CFCA EV SSL Certificate  
 cfca-ov CFCA OV SSL certificate  
 cfca-ov-wildcard CFCA OV Wildcard SSL Certificate  
 certum-ev-ssl Certum EV SSL Certificate  
 certum-ov-ssl Certum OV SSL Certificate  
 certum-ov-wildcard-ssl Certum OV Wildcard SSL Certificate  
 certum-dv-ssl ssl Certum DV SSL Certificate  
 certum-dv-wildcard-ssl Certum DV Wildcard SSL Certificate  
 globalsign-ev-ssl GlobalSign EV SSL Certificate  
 globalsign-dv-ssl GlobalSign DV SSL Certificate  
 globalsign-domain-wildcard-ssl GlobalSign DV wildcard SSL certificate  
 globalsign-organization-ssl GlobalSign OV SSL Certificate  
 globalsign-organization-wildcard-ssl GlobalSign OV wildcard SSL certificate



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### 5.2 Push Message Status Code

type	Status code	Status Description	Remarks
New	EN01	Pending review	
	EN02	Review failed	
	EN03	Verifying	
	EN04	Waiting for issuance	
	EN05	Issued	
	EN06	Order cancellation	
update	RN01	Pending review	
	RN02	Review failed	
	RN03	Verifying	
	RN04	Waiting for issuance	
	RN05	Issued	
	RN06	Order cancellation	
replace	RP01	Pending review	
	RP02	Review failed	
	RP03	Verifying	
	RP04	Waiting for issuance	
	RP05	Issued	
	RP06	Order cancellation	
cancel	CC01	Pending review	
	CC02	Review failed	
	CC03	To be confirmed by the user	
	CC04	Cancel successful	
	CC05	Cancel failed	
Revocation	RV01	Pending review	
	RV02	Review failed	
	RV03	To be confirmed by the user	
	RV04	Revocation successful	
	RV05	Revocation failed	