

# HTTP API of Network

## Version 3.0.2

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# Catalog

1 Summary .....	6
2 Local network configuration .....	7
2.1 Description .....	7
2.2 Grammar .....	7
2.3 Parameters .....	7
2.4 Example .....	8
2.4.1 Get local network parameters .....	8
2.4.2 Set local network parameters .....	8
3 Device Time Configuration .....	10
3.1 Description .....	10
3.2 Grammar .....	10
3.3 Parameters .....	10
3.4 Example .....	11
3.4.1 Get device time .....	11
3.4.2 Set device time .....	11
4 NTP Configuration .....	13
4.1 Description .....	13
4.2 Grammar .....	13
4.3 Parameters .....	13
4.4 Example .....	14
4.4.1 Get NTP parameters .....	14

4.4.2 Set NTP parameters .....	15
5 DDNS Configuration .....	16
5.1 Description .....	16
5.2 Grammar .....	16
5.3 Parameters .....	16
5.4 Example .....	17
5.4.1 Get DDNS parameters .....	17
5.4.2 Set DDNS parameters .....	17
6 SMTP Configuration .....	18
6.1 Description .....	18
6.2 Grammar .....	18
6.3 Parameters .....	18
6.4 Example .....	19
6.4.1 Get SMTP Parameters .....	19
6.4.2 Set SMTP Parameters .....	19
7 FTP Configuration .....	21
7.1 Description .....	21
7.2 Grammar .....	21
7.3 Parameters .....	21
7.4 Example .....	22
7.4.1 Get FTP parameters .....	22
7.4.2 Set FTP parameters .....	22

8 Onvif Configuration .....	24
8.1 Description .....	24
8.2 Grammar .....	24
8.3 Parameters .....	24
8.4 Example .....	25
8.4.1 Get onvif parameters .....	25
8.4.2 Set onvif parameters .....	25
9 UART configuration .....	27
9.1 Description .....	27
9.2 Grammar .....	27
9.3 Parameters .....	27
9.4 Example .....	28
9.4.1 Get UART parameters .....	28
9.4.2 Set UART parameters .....	28
10 UART transmission .....	30
10.1 Description .....	30
10.2 Grammar .....	30
10.3 Example .....	30
10.3.1 Send data .....	30
11 RTP Configuration .....	31
11.1 Description .....	31
11.2 Grammar .....	31

11.3 Parameters .....	31
11.4 Example .....	31
11.4.1 Get RTP parameters .....	31
11.4.2 Set RTP parameters .....	32
12 RTMP Configuration .....	33
12.1 Description .....	33
12.2 Grammar .....	33
12.3 Parameters .....	33
12.4 Example .....	34
12.4.1 Get RTMP parameters .....	34
12.4.2 Set RTMP parameters .....	34
13 NAS Configuration .....	36
13.1 Description .....	36
13.2 Grammar .....	36
13.3 Parameters .....	36
13.4 Example .....	36
13.4.1 Get NAS parameters .....	36
13.4.2 Set NAS parameters .....	37

# 1 Summary

Network CGI is used for set/get local networktime、ntp、ddns、smtp、ftp、onvif、uart config、send uart data、rtsp, etc.

## 2 Local network configuration

### 2.1 Description

This command is used for get/set ipv4 address, submask, gateway, mac address, etc.

### 2.2 Grammar

Get:

```
http://<Device IP>/cgi/network.cgi?get=eth
```

Set:

```
http://<Device IP>/cgi/network.cgi?set=eth&data=<?xml version="1.0"
encoding="utf-8"?><root><eth xxx /><dns xxx /></root>
```

Note: When IP parameter is set in the local network parameters, the device will change the IP address.

### 2.3 Parameters

Parameters	Value	Description
<eth>	none	
ip	practical	Ipv4 address
submask	practical	Sub mask
gateway	practical	Gate way
ondhcp	index	0:disable dns automatically;1: enable dns automatically
ip6	practical	IPv6 address
submask6	practical	IPv6 sub mask

gateway6	practical	IPv6 gate way
dhcp_mode	index	
dhcp_fixed_time	practical	
<dns>	practical	
ondhcp	index	0:disable dns automatically;1: enable dns automatically
dns1	practical	First DNS
dns2	practical	Second DNS

## 2.4 Example

### 2.4.1 Get local network parameters

#### REQUEST

```
http://192.168.2.172/cgi/network.cgi?get=eth
```

#### RESPONSE

```
HTTP/1.0 200 OK
```

```
Content-type: text/plain;charset=utf-8
```

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<eth ondhcp='0' ip='192.168.2.172' submask='255.255.255.0' gateway='192.168.2.1'
ip6="" submask6="" gateway6="" dhcp_mode='0' dhcp_fixed_time='600' >
<dns ondhcp='0' dns1='8.8.8.8' dns2='8.8.8.8' />
</eth>
</root>
```

### 2.4.2 Set local network parameters

Example: Modify the device's ip address to 192.168.2.171, subnet mask to



255.255.255.0, and default gateway to 192.168.2.1.

## REQUEST

```
http://192.168.2.172/cgi/network.cgi?set=eth&data=<?xml version="1.0"
encoding="utf-8"?><root><eth ondhcp='0' ip='192.168.2.171' submask='255.255.255.0'
gateway='192.168.2.1' ></eth></root>
```

## RESPONSE

*HTTP/1.0 200 OK*

*Content-type: text/plain;charset=utf-8*

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<code>0</code>
<error>successful</error>
</root>
```

# 3 Device Time Configuration

## 3.1 Description

This command will get the time parameters including year, month, day, week, hour, minute, second, etc.

## 2.2 Grammar

Get:

```
http://<Device IP>/cgi/network.cgi?get=time
```

Set:

```
http://<Device IP>/cgi/network.cgi?get=time&data=<?xml version="1.0" encoding="utf-8"
"?><root><time xxx /></root>
```

## 3.3 Parameters

Parameters	Value	Description
<time>	none	
year	practical	Year
month	practical	Month
day	practical	Day
week	practical	Week
hour	practical	Hour
minute	practical	Minute
second	practical	Second

## 3.4 Example

### 3.4.1 Get device time

#### REQUEST

```
http://192.168.2.172/cgi/network.cgi?get=time
```

#### RESPONSE

```
HTTP/1.0 200 OK
```

```
Content-type: text/plain;charset=utf-8
```

```
<?xml version="1.0" encoding="utf-8"?>  
<root>  
<time year='2022' month='9' day='16' week='5' hour='15' minute='34' second='48' />  
</root>
```

### 3.4.2 Set device time

Example: Modify the time of the device to August 11, 2013.

#### REQUEST

```
http://192.168.2.172/cgi/network.cgi?set=time&data=<?xml version="1.0"  
encoding="utf-8"?><root><time year='2013' month='8' day='11' /></root>
```

#### RESPONSE

```
HTTP/1.0 200 OK
```

```
Content-type: text/plain;charset=utf-8
```

```
<?xml version="1.0" encoding="utf-8"?>  
<root>  
<code>0</code>  
<error>successful</error>  
</root>
```



# 4 NTP Configuration

## 4.1 Description

This command is used for get/set NTP configuration.

## 4.2 Grammar

Get:

```
http://<Device IP>/cgi/network.cgi?get=ntp
```

Set:

```
http://<Device IP>/cgi/network.cgi?set=ntp&data=<?xml version="1.0" encoding="utf-8"
"?><root><ntp xxx><summer xxx><begin xxx /><end xxx /></ntp></root>
```

## 4.3 Parameters

Parameters	Value	Description
<ntp>	none	
on	practical	0:Disable NTP;1:Enable NTP
timezone	practical	Time zone
server	practical	NTP IP address
clientindex	practical	Index file
ntpport	practical	NTP port
reftime	practical	NTP adjust interval, unit: hour
<summer>		
on	practical	0:Disable daylight saving time;1:Enable daylight saving time
advancetime	practical	Begin time node

begin	none	End time node
end	none	The week in a month of begin daylight saving time or end daylight saving time, range is (1-5)
week_index	practical	The week day of begin daylight saving time or end daylight saving time, range is (1-7)
week	practical	The hour of begin daylight saving time or end daylight saving time, range is (0-23)
hour	practical	The minute of begin daylight saving time or end daylight saving time, range is (0-59)
minute	practical	The month of begin daylight saving time or end daylight saving time, range is (1-12)
month	practical	0:Disable daylight saving time;1:Enable daylight saving time

## 4.4 Example

### 4.4.1 Get NTP parameters

#### REQUEST

```
http://192.168.2.172/cgi/network.cgi?get=ntp
```

#### RESPONSE

```
HTTP/1.0 200 OK
```

```
Content-type: text/plain;charset=utf-8
```

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<root>
```

```
<version version='0' />
```

```
<ntp on='0' timezone='8.00' reftime='10' server='pool.ntp.org' clientindex='226'
```

```
ntpport='123'>
```

```
<summer on='0' advancetime='60'>
<begin month='3' week_index='2' week='7' hour='2' minute='0'/>
<end month='11' week_index='1' week='7' hour='2' minute='0'/>
</summer>
</ntp>
</root>
```

## 4.4.2 Set NTP parameters

Example: Modify the port number of NTP to 1234.

### REQUEST

```
http://192.168.2.172/cgi/network.cgi?set=ntp&data=<?xml version="1.0"
encoding="utf-8"?><root><ntp ntpport='1234'></ntp></root>
```

### RESPONSE

*HTTP/1.0 200 OK*

*Content-type: text/plain; charset=utf-8*

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<code>0</code>
<error>successful</error>
</root>
```

# 5 DDNS Configuration

## 5.1 Description

This command is used for get/set DDNS configuration.

## 5.2 Grammar

Get:

```
http://<Device IP>/cgi/network.cgi?get=ddns
```

Set:

```
http://<Device IP>/cgi/network.cgi?set=ddns&data=<?xml version="1.0" encoding="utf-8"
"?><root><ddns xxx /></root>
```

## 5.3 Parameters

Parameters	Value	Description
<ddns>	none	
on	practical	0:Disable DDNS;1:Enable DDNS
account	practical	Domain url
pwd	practical	User password
name	practical	User name
port	practical	DDNS server port
times	practical	DDNS update time
type	practical	Ddns supplier, 0:dyndns;1:3322



## 5.4 Example

### 5.4.1 Get DDNS parameters

#### REQUEST

```
http://192.168.2.172/cgi/network.cgi?get=ddns
```

#### RESPONSE

```
HTTP/1.0 200 OK
```

```
Content-type: text/plain;charset=utf-8
```

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<ddns on='0' type='0' account='test.dyndns.org' port='81' name='123' pwd='1235'
times='3600' />
</root>
```

### 5.4.2 Set DDNS parameters

Example: Modify the DDNS server port to 98.

#### REQUEST

```
http://192.168.2.172/cgi/network.cgi?set=ddns&data=<?xml version="1.0"
encoding="utf-8"?><root><ddns port=98 /></root>
```

#### RESPONSE

```
HTTP/1.0 200 OK
```

```
Content-type: text/plain;charset=utf-8
```

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<code>0</code>
<error>successful</error>
</root>
```

# 6 SMTP Configuration

## 6.1 Description

This command is used for get/set SMTP parameters.

## 6.2 Grammar

Get:

```
http://<Device IP>/cgi/network.cgi?get=smtp
```

Set:

```
http://<Device IP>/cgi/network.cgi?set=smtp&data=<?xml version="1.0" encoding="utf-8"
"?><root><smtp ch=0 xxx /></root>
```

## 6.3 Parameters

Parameters	Value	Description
<smtp>	none	
ch	index	smtp channel
hub	practical	SMTP server address
addr	practical	Sender account
recipient_addr	practical	Receiver address
user	practical	User name
psw	practical	User password
title	practical	Mail title
port	practical	Smtp server port
enable_ssl	practical	0:Disable SSL;1:Enable SSL

## 6.4 Example

### 6.4.1 Get SMTP Parameters

#### REQUEST

```
http://192.168.2.172/cgi/network.cgi?get=smtp
```

#### RESPONSE

```
HTTP/1.0 200 OK
```

```
Content-type: text/plain;charset=utf-8
```

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<smtp ch='0' hub=" addr=" user=" psw=" recipient_addr=" port='25' title="
enable_ssl='0' >
</smtp>
</root>
```

### 6.4.2 Set SMTP Parameters

Example: Modify the SMTP server port in channel 1 to 80.

Tip: You must specify the channel information.

#### REQUEST

```
http://192.168.2.172/cgi/network.cgi?set=smtp&data=<?xml version="1.0"
encoding="utf-8"?><root><smtp ch=0 port=80 /></root>
```

#### RESPONSE

```
HTTP/1.0 200 OK
```

```
Content-type: text/plain;charset=utf-8
```

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<code>0</code>
```

<error>successful</error>

</root>

# 7 FTP Configuration

## 7.1 Description

This command is used for get/set FTP configuration.

## 7.2 Grammar

Get:

```
http://<Device IP>/cgi/network.cgi?get=ftp
```

Set:

```
http://<Device IP>/cgi/network.cgi?set=ftp&data=<?xml version="1.0" encoding="utf-8"
"?><root><ftp xxx /></root>
```

## 7.3 Parameters

Parameters	Value	Description
<Ftp>	none	
ch	index	FTP channel
path	practical	FTP path
psw	practical	FTP login password
user	practical	FTP login user name
url	practical	FTP server url
port	practical	FTP server port

## 7.4 Example

### 7.4.1 Get FTP parameters

#### REQUEST

```
http://192.168.2.172/cgi/network.cgi?get=ftp
```

#### RESPONSE

```
HTTP/1.0 200 OK
```

```
Content-type: text/plain;charset=utf-8
```

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<version version='0' />
<ftp ch='0' url="" user="" psw="" port='21' path="">
</ftp>
</root>
```

### 7.4.2 Set FTP parameters

Example: Modify the FTP server port in channel 1 to 23.

Tip: You must specify the channel information.

#### REQUEST

```
http://192.168.2.172/cgi/network.cgi?set=ftp&data=<?xml version="1.0"
encoding="utf-8"?><root><ftp ch=0 port=23 ></ftp></root>
```

#### RESPONSE

```
HTTP/1.0 200 OK
```

```
Content-type: text/plain;charset=utf-8
```

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<code>0</code>
```

<error>successful</error>

</root>

# 8 Onvif Configuration

## 8.1 Description

This command is used for get/set Onvif configuration.

## 8.2 Grammar

获取 onvif 配置:

```
http://<Device IP>/cgi/network.cgi?get=onvif
```

设置 onvif 配置:

```
http://<Device IP>/cgi/network.cgi?set=onvif<?xml version="1.0" encoding="GBK"?><root><onvif xxx /></root>
```

## 8.3 Parameters

Parameters	Value	Description
<onvif>	none	
on	practical	0:Disable onvif;1:Enable onvif
enabletalk	practical	0:Disable intercom;1:Enable intercom
synctime	practical	0:Disable synchronization time;1:Enable synchronization time
syncparam	practical	0:Disable synchronization parameters;1:Enable synchronization parameters
enablemeta	practical	0:Disable metadata Alerts;1:Enable metadata Alerts
authorized	practical	0:Disable identity verification;1:Enable identity verification
companyname	practical	



hostname	practical	Host Name
location	practical	Indicates a URL that references a WSDL document containing the full service interface definition
wlanip	practical	Extranet IPV4 address

## 8.4 Example

### 8.4.1 Get onvif parameters

#### REQUEST

```
http://192.168.2.172/cgi/network.cgi?get=onvif
```

#### RESPONSE

```
HTTP/1.0 200 OK
```

```
Content-type: text/plain;charset=utf-8
```

```
<?xml version="1.0" encoding="GBK"?>
<root>
<version version='1' />
<onvif on='1' enabletalk='1' synctime='1' synccparam='1' enablemeta='1' authorized='0'
companyname="" hostname="" location="" wlanip='0.0.0.0' compatiblemode='0' />
</root>
```

### 8.4.2 Set onvif parameters

Example: Modify the switch of Onvif to on.

#### REQUEST

```
http://192.168.2.172/cgi/network.cgi?set=onvif&data=<?xml version="1.0"
encoding="GBK"?><root><onvif on='1' /></root>
```

#### RESPONSE

*HTTP/1.0 200 OK*

*Content-type: text/plain;charset=utf-8*

<?xml version="1.0" encoding="utf-8"?>

<root>

<code>0</code>

<error>successful</error>

</root>

# 9 UART configuration

## 9.1 Description

This command is used for get/set uart configuration.

## 9.2 Grammar

Get:

```
http://<Device IP>/cgi/network.cgi?get=uart
```

Set:

```
http://<Device IP>/cgi/network.cgi?set=uart&data=<?xml version="1.0" encoding="utf-8"
"?><root><uart ch='1' xxx /></root>
```

## 9.3 Parameters

Parameters	Value	Description
<uart>	none	
ch	index	UART channel , if this value is 0, it means rs232 channel, otherwise is rs485 channel
buadrate	practical	Baud rate
databit	practical	Data bits, 0: 5 bits;1: 6 bits; 2:7 bits; other: 8 bits
stopbit	practical	Stop bits, 1: 1 bits; 2: 2 bits; other: 1 bits
parity	practical	Parity bits, 0: none; 1: Odd;2: Even;3: Always 1;4: Always 0
flowctrl	practical	Reserve
devname	practical	Name of the Ethernet device

gpio	practical	General purpose inputs and outputs
useptz	index	0:Disable uart;1:Enable uart

## 9.4 Example

### 9.4.1 Get UART parameters

#### REQUEST

```
http://192.168.2.172/cgi/network.cgi?get=uart
```

#### RESPONSE

```
HTTP/1.0 200 OK
```

```
Content-type: text/plain;charset=utf-8
```

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<uart ch='0' databit='3' stopbit='1' parity='0' flowctrl='0' buadrate='57600'
devname='/dev/ttyS2' gpio='0' useptz='1'/>
</root>
```

### 9.4.2 Set UART parameters

Example: Modify the length of the serial data bits of the rs485 channel to 6 bits and the baud rate of the serial port to 300.

Tip: Channel information must be specified.

#### REQUEST

```
http://192.168.2.172/cgi/network.cgi?set=uart&data=<?xml version="1.0"
encoding="utf-8"?><root><uart ch='1' databit='1' buadrate='300' /></root>
```

#### RESPONSE

```
HTTP/1.0 200 OK
```

```
Content-type: text/plain;charset=utf-8
```

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<root>
```

```
<code>0</code>
```

```
<error>successful</error>
```

```
</root>
```

# 10 UART transmission

## 10.1 Description

This command is used for send uart data to RS485.

## 10.2 Grammar

```
http://<Device IP>/cgi/network.cgi?act=uart_data&data=123456
```

## 10.3 Example

### 10.3.1 Send data

#### REQUEST

```
http://192.168.2.172/cgi/network.cgi?act=uart_data&data=123456
```

#### RESPONSE

```
HTTP/1.0 200 OK
```

```
Content-type: text/plain;charset=utf-8
```

# 11 RTP Configuration

## 11.1 Description

This command is used for get/set RTP configuration.

## 11.2 Grammar

Get:

```
http://<Device IP>/cgi/network.cgi?get=rtp
```

Set:

```
http://<Device IP>/cgi/network.cgi?set=rtp&data=<?xml version="1.0" encoding="utf-8"
"?><root><rtp xxx /></root>
```

## 11.3 Parameters

Parameters	Value	Description
<rtp>	none	
enable	practical	0:Disable rtp;1:Enable rtp
rtpport	practical	RTP receive port
mtu	practical	MTU
url	practical	RTP Server url
streamid	practical	Stream id

## 11.4 Example

### 11.4.1 Get RTP parameters

REQUEST

```
http://192.168.2.172/cgi/network.cgi?get=rtp
```

## RESPONSE

```
HTTP/1.0 200 OK
```

```
Content-type: text/plain;charset=utf-8
```

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<version version='0' />
<rtp enable='0' streamid='1' rtpport='5000' url=" mtu='1400' />
</root>
```

## 11.4.2 Set RTP parameters

Example: Modify the port of RTP in stream 2 to 1500.

Tip: You must specify the stream information.

## REQUEST

```
http://192.168.2.172/cgi/network.cgi?set=rtp&data=<?xml version="1.0"
encoding="utf-8"?><root><rtp streamid='1' rtpport='1500' /></root>
```

## RESPONSE

```
HTTP/1.0 200 OK
```

```
Content-type: text/plain;charset=utf-8
```

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<code>0</code>
<error>successful</error>
</root>
```



# 12 RTMP Configuration

## 12.1 Description

This command is used for get/set RTMP configuration.

## 12.2 Grammar

Get:

```
http://<Device IP>/cgi/network.cgi?get=rtmp
```

Set:

```
http://<Device IP>/cgi/network.cgi?set=rtmp&data=<?xml version="1.0" encoding="utf-8"
"?><root><rtmp on=xxx><url xxx /></rtmp></root>
```

## 12.3 Parameters

Parameters	Value	Description
<rtmp>	none	
on	index	0:Disable rtmp;1:Enable rtmp
<url>	none	
ch	index	0:Disable rtp;1:Enable rtp
streamtype	practical	Stream
serverip	practical	rtmp
port	practical	Port
appname	practical	App name
streamid	practical	Stream id

## 12.4 Example

### 12.4.1 Get RTMP parameters

#### REQUEST

```
http://192.168.2.172/cgi/network.cgi?get=rtmp
```

#### RESPONSE

```
HTTP/1.0 200 OK
```

```
Content-type: text/plain;charset=utf-8
```

```
<?xml version="1.0" encoding="GBK"?>
<root>
<rtmp on='0'>
<url ch='0' streamtype='0' serverip=" port='0' appname=" streamid=" /><url ch='0'
streamtype='1' serverip=" port='0' appname=" streamid=" /><url ch='0' streamtype='2'
serverip='192.168.2.28' port='1234' appname='live' streamid='123' /></rtmp>
</root>
```

### 12.4.2 Set RTMP parameters

Example: Modify the switch of Onvif to on.

#### REQUEST

```
http://192.168.2.172/cgi/network.cgi?set=rtmp&data=<?xml version="1.0"
encoding="utf-8"?><root><rtmp on=1 /></root>
```

#### RESPONSE

```
HTTP/1.0 200 OK
```

```
Content-type: text/plain;charset=utf-8
```

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<root>
```

```
<code>0</code>
```

```
<error>successful</error>
```

```
</root>
```

# 13 NAS Configuration

## 13.1 Description

This command is used for get/set nas configuration.

## 13.2 Grammar

Get:

```
http://<Device IP>/cgi/network.cgi?get=nas
```

Set:

```
http://<Device IP>/cgi/network.cgi?set=NAS&data=<?xml version="1.0" encoding="utf-8"
"?><root><nas xxx /></root>
```

## 13.3 Parameters

Parameters	Value	Description
<nas>		
ch	index	NAS channel
server	practical	NAS server address
path	practical	NAS path
file_system	practical	file system

## 13.4 Example

### 13.4.1 Get NAS parameters

#### REQUEST

```
http://192.168.2.172/cgi/network.cgi?get=nas
```

## RESPONSE

*HTTP/1.0 200 OK*

*Content-type: text/plain;charset=utf-8*

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<version version='0' />
<nas ch='0' server=" path='/' file_system='0'>
</nas>
</root>
```

### 13.4.2 Set NAS parameters

Example: Modify the NAS server port in channel 1 to 192.168.2.7 .

Tip: You must specify the channel information

## REQUEST

```
http://192.168.2.172/cgi/network.cgi?set=nas&data=<?xml version="1.0"
encoding="utf-8"?><root><nas ch=0 server=192.168.2.7 ></nas></root>
```

## RESPONSE

*HTTP/1.0 200 OK*

*Content-type: text/plain;charset=utf-8*

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<code>0</code>
<error>successful</error>
</root>
```