

HTTP API of DeviceManage

Version 3.0.3

Release notes			
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1 Summary

Device manager is used for device operation or device maintain, for example device reboot, reset, add/del user ,etc.

2 Device account

2.1 Description

This command is used for get/set user info.

2.2 Grammar

Get:

```
http://<Device IP>/cgi/devicemanage.cgi?get=user
```

Set:

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

2.3 Parameter

Parameter	Value	Description
<user>	none	
id	index	User id
name	practical	User name
password	practical	User password
groupid	index	User group. 0: administrator; 1: operator; 2: Media User
used	index	Is this user can be used , 0:Disable;1:Enable

2.4 Example

2.4.1 Get user information

REQUEST

```
http://192.168.2.172/cgi/devicemanage.cgi?get=user
```

RESPONSE

```
HTTP/1.0 200 OK
```

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

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<user id='0' name='admin' groupid='0' used='1'/>
<user id='1' name='ABC' groupid='1' used='1'/>
<user id='2' name='aaa' groupid='2' used='1'/>
</root>
```

3 User group privilege

3.1 Description

This command is used for get/set user group privilege.

3.2 Grammar

Get:

```
http://<Device IP>/cgi/devicemanage.cgi?get=group
```

3.3 Parameter

Parameter	Value	Description
<group>	none	
id	index	Group id
name	practical	Group name
right	practical	Corresponding group permission (the first group permission is not allowed to be modified). 0:No permission, 1:Live video permission, 2:PTZ control permission, 3:Live video and PTZ control permission, 8:Device parameter permission, 9:Live video and device parameter permission, 10:PTZ control and device parameter permission, 11:Live video, PTZ control and device parameter permission
enable	practical	Internal parameter, can be ignored

3.4 Example

3.4.1 Get user group privilege

REQUEST

```
http://192.168.2.172/cgi/devicemanage.cgi?get=group
```

RESPONSE

```
HTTP/1.0 200 OK
```

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

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<group id='0' name='administrator' enable='0' right='255'/>
<group id='1' name='operator' enable='1' right='11'/>
<group id='2' name='media user' enable='1' right='1'/>
</root>
```


4 Device Information

4.1 Description

This command will get the usual information: device name, ID, MAC, SN and version information etc.

4.2 Grammar

```
http://<Device IP>/cgi/devicemanage.cgi?get=deviceinfo
```

4.3 Parameter

Parameter	Value	Description
<deviceinfo>	none	
name	practical	Device ID
serial	practical	Device SN number
old_listen_port	practical	Old listening ports
mac_addr	practical	Device MAC addr
version	practical	Device version information
ip	practical	IPv4 Address
submask	practical	Subnet mask
gateway	practical	Gateway
listen_port	practical	Listening port
version	practical	Device version
http_port	practical	http port
do_status	practical	Display Status
update_port	practical	Upgrade Port

id	practical	Device ID
serial	practical	Device Serial Number

4.4 Example

4.4.1 Get device information

REQUEST

```
http://192.168.2.172/cgi/devicemanage.cgi?get=deviceinfo
```

RESPONSE

```
HTTP/1.0 200 OK
```

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

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<version version='0' />
<deviceinfo name='Camera-N600' old_listen_port='59000' mac_addr='10:00:00:18:07:78'
ip='192.168.2.172' submask='255.255.255.0' gateway='192.168.2.1' listen_port='60000'
http_port='80' do_status='0' update_port='61000'
version='V1.0.0.27-build:20230710182814' serial='00000003344' id='180778'>
</deviceinfo>
</root>
```

5 Device Reboot

5.1 Description

This command is used for reboot device.

5.2 Grammar

```
http://<Device IP>/cgi/devicemanage.cgi?act=reboot
```

5.3 Example

5.3.1 Reboot

REQUEST

```
http://192.168.2.172/cgi/devicemanage.cgi?act=reboot
```

RESPONSE

Reboot device without any response.

6 Reset to factory setting

6.1 Description

This command is used for reset parameters to factory setting.

6.2 Grammar

```
http://<Device IP>/cgi/devicemange.cgi?act=reset&data=<?xml
version='1.0'?><root><reset/></root>
```

6.3 Parameter

Parameter	Value	Description
<root>	none	
<reset>	none	
module	practical	Modules to be recovered, separated by a comma ","
filter	practical	Modules that do not need to be reset, separated by a comma ",",

6.3 Example

6.3.1 Restore factory

Tip: To recover the video, network, port and user modules, you need to use the restart device interface to restart the device once after recovering the parameters to avoid the internal initialization abnormality of the device when the codec and other modules are reset, resulting in an unintended condition of the device.

REQUEST1

Recovery of video module and audio module.

```
http://192.168.2.172/cgi/devicemanage.cgi?act=reset&data=<?xml
version='1.0'?><root><reset module='3,4'/></root>
```

REQUEST2

Retain device IP, port module.

```
http://192.168.2.172/cgi/devicemanage.cgi?act=reset&data=<?xml
version='1.0'?><root><reset filter='25,27' /></root>
```

RESPONSE

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

6.3.2 Device restores factory parameters

Definition	Value
System info	0
Device Time	2
Video info	3
Audio info	4
OSD	5

Image setting	6
ROI	8
Motion detection	9
AWB	11
AE	12
AF	13
ISP	14
Port	25
DDNS	26
Network	27
NTP	28
FTP	29
SMTP	30
RS485	31
Linkage module	50
Schedule	51
User	54
Group	55
GPIO	56
ONVIF	75
RTSP	76
RTP	77
AI	100
Perimeter Alarm	101
Mixing line	102

detection	
PTZ	125
Preset	126
Scan	127
Track	128

7 Scheduled restart

7.1 Description

This command is used to configure the automatic reboot time.

7.2 Grammar

Get schedule restart param:

```
http://<Device IP>/cgi/devicemanage.cgi?auth=<authid>&get=reboot_scheme
```

Set schedule restart param:

```
http://<Device IP>/cgi/devicemanage.cgi?auth=<authid>&get=reboot_scheme
```

7.3 Parameter

Parameter	Value	Description
<rebootscheme>	无	
on	practical	0-off, 1-on
everyday	practical	everyday
week	practical	Scope Monday through weekend (1-7).
hour	practical	Hour,0-23
minute	practical	Min,0-59
second	practical	Sec,0-59

7.3 Example

7.3.1 Get schedule restart param

REQUEST1

```
http://192.168.2.227/cgi/devicemanage.cgi?auth=7f3878d052cf11ef8722234175625249&get=reboot_sc  
heme
```

RESPONSE

```
<?xml version="1.0" encoding="utf-8"?>  
<root>  
  <version version='0' />  
  <rebootscheme on='0' everyday='0' week='1' hour='0' minute='0' second='0'>  
  </rebootscheme>  
</root>
```

7.3.2 Set schedule restart param

REQUEST1

Enable automatic restart function and set it to restart every day at 18:00.

```
http://192.168.2.227/cgi/devicemanage.cgi?auth=7f3878d052cf11ef8722234175625249  
&set=reboot_scheme&data=<?xml version="1.0"  
encoding="utf-8"?><root><rebootscheme on='1' everyday='1' week='1' hour='18'  
minute='0' second='0'></rebootscheme></root>
```

RESPONSE

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

</root>