

IP Camera CGI Guide

Version	Author	Date	Modification
1.0	Maverick Gao	2007-11-21	System software x.x.1.2
1.01	Maverick Gao	2008-07-25	<p>System software x.x.1.17</p> <ul style="list-style-type: none"> • get_params.cgi added parameter : wifi_channel 、 wifi_authtype wifi_keyformat 、 wifi_key1_bits 、 wifi_key2_bits、 wifi_key3_bits、 wifi_key4_bits。 • set_wifi.cgi added parameter: channel、 authtype、 keyformat 、key1_bits 、key2_bits 、key3_bits 、 key4_bits。 • modify_snapshot.cgi, add authentication method: use username and password in param directly • add videostream.cgi
1.02	Maverick Gao	2008-08-06	System software x.x.1.18 <ul style="list-style-type: none"> • modify camera_control.cgi, add PT control
1.03	Maverick Gao	2009-01-07	System software x.x.1.32
1.04	Maverick Gao	2009-02-07	System software x.x.1.33 <ul style="list-style-type: none"> • change motion detection sensibility • add alarm scheduler related param
1.05	Maverick Gao	2009-04-29	System software x.x.1.39 <ul style="list-style-type: none"> • add videostream.asf • in videostream.cgi add resolution param
1.06	Maverick Gao	2009-06-13	System software x.x.1.41 <p>in decoder_control.cgi add onestep param add comm_write.cgi</p> <ul style="list-style-type: none"> • add set_forbidden.cgi • add get_forbidden.cgi • add set_misc.cgi • add get_misc.cgi • add set_decoder.cgi • in get_params.cgi, add param : decoder_baud <p>get_params.cgi added param: decoder_baud</p>
1.07	Maverick Gao	2009-06-19	System software x.x.1.42 <p>in set_misc.cgi get_misc.cgi param added:</p> <ul style="list-style-type: none"> • ptz_patrol_rate, • ptz_patrol_up_rate,

			<ul style="list-style-type: none"> • ptz_patrol_down_rate, • ptz_patrol_left_rate, • ptz_patrol_right_rate
1.08	Maverick Gao	2009-08-03	System software x.x.1.43 <ul style="list-style-type: none"> • add wifi_scan.cgi • add get_wifi_scan_result.cgi • add get_log.cgi
1.09	Maverick Gao	2009-08-22	System software x.x.1.44 modify get_wifi_scan_result.cgi return value
1.10	Maverick Gao	2009-09-25	System software x.x.2.2 <ul style="list-style-type: none"> • in get_params.cgi, add param of alarm_ioin_level, • alarm_ioout_level • in set_pppoe.cgi, modify user and pwd's longest character as 64 • in set_ddns.cgi, modify user, pwd, host, proxy_svr's longest character as 64 • set_mail.cgi modify svr , user, pwd, sender , receiver1, receiver2 receiver3,receiver4's longest character as 64 • in set_alarm.cgi add param of ioin_level, ioout_level • add check_user.cgi • add backup_params.cgi • add restore_params.cgi
1.11	Maverick Gao	2009-10-07	System software x.x.2.2 add set_mac.cgi
1.12	Maverick Gao	2010-04-26	System software x.x.2.17 <ul style="list-style-type: none"> • modify get_misc.cgi and set_misc.cgi param description • get_params.cgi and set_alarm.cgi, add alarm_http related param (system software x.x.2.12) • videostream.cgi and videostream.asf, add param of rate • get_params.cgi and set_ftp.cgi, add param of ftp_filename and ftp_number of files
1.13	Maverick Gao	2010-05-26	<ul style="list-style-type: none"> • modify get_params.cgi and set_ddns.cgi param description • modify get_status.cgi param description • add set_factory_ddns.cgi

			<ul style="list-style-type: none"> • add get_factory_ddns.cgi • add restore_factory_ddns.cgi <p>above is for software version x.x.2.20</p>
1.14	Maverick Gao	2010-06-03	<ul style="list-style-type: none"> • modify decoder_control.cgi param description • modify get_params.cgi param description • modify set_alarm.cgi param description <p>above is for software version x.x.2.21</p>
1.15	Maverick Gao	2010-08-17	<ul style="list-style-type: none"> • modify set_misc.cgi param description • modify get_misc.cgi param description • modify get_params.cgi and set_mail.cgi param description, add param of tls • modify test_mail.cgi return value <p>above is for software version x.x.2.27</p>
1.16	Maverick Gao	2010-09-03	<p>add decoder_control.cgi with param of degree</p> <p>above is for software version x.x.2.28</p>
1.17	Maverick Gao	2010-09-27	<ul style="list-style-type: none"> • modify get_params.cgi param description, add alarm_motion_compensation、daylight_saving_time、ftp_schedule_enable、ftp_schedule series param • modify set_ftp.cgi param description, addschedule_enable、schedule param • modify set_datetime.cgi param description, adddaylight_saving_time param • modify set_alarm.cgi param description, add motion_compensation param • modify set_misc.cgi param description, add ptz_preset_onstart param • modify get_misc.cgi param description, add ptz_preset_onstart param <p>above is for software version x.x.2.29</p>
1.18	Maverick Gao	2010-11-20	<ul style="list-style-type: none"> • modify get_params.cgi param description, add msn_user、msn_pwd series param • add set_msn.cgi • add get_status.cgi return param, msn_status <p>above is for software version x.x.2.32</p>
1.19	Maverick Gao	2010-12-07	<ul style="list-style-type: none"> • modify get_params.cgi param description,add msn_friend series param • modify set_msn.cgi param, add friend series param • modify ddns param description in set_ddns.cgi、get_params.cgi、get_factory_ddns.cgi and set_factory_ddns.cgi 。

			<ul style="list-style-type: none"> • modify get_status.cgi return ddns_status param description <p>above is for software version x.x.2.34</p>
1.20	Maverick Gao	2011-3-3	<ul style="list-style-type: none"> • add set_factory_params.cgi <p>above is for software version x.x.2.37</p>
1.21	Maverick Gao	2011-3-30	<ul style="list-style-type: none"> • add set_extra_io.cgi <p>above is for software version x.x.2.38</p>
1.22	Maverick Gao	2011-5-23	<ul style="list-style-type: none"> • modify get_params.cgi param description, add dhcp_vendor param • modify set_network.cgi param description, add dhcp_vendor param <p>above is for software version x.x.2.40</p>
1.23	Maverick Gao	2011-6-25	<ul style="list-style-type: none"> • modify get_params.cgi , set_ddns.cgi, get_status.cgi add EasyNet platform <p>above is for software version x.x.2.40</p>
1.24	Maverick Gao	2011-7-1	<ul style="list-style-type: none"> • modify get_params.cgi , set_alarm.cgi, get_status.cgi add audio detect alarm <p>above is for software version x.x.2.41</p>
1.25	Maverick Gao	2011-7-18	<ul style="list-style-type: none"> • get_status.cgi 中 add wifi_status <p>above is for software version x.x.2.41</p>
1.26	Maverick Gao	2011-8-11	<ul style="list-style-type: none"> • in get_params.cgi and set_wifi.cgi, add wifi_country param <p>above is for software version x.x.2.42</p>
1.27	Maverick Gao	2011-9-17	<ul style="list-style-type: none"> • modify ddns related param description • add ftp_retain param <p>above is for software version x.x.2.43</p>
1.28	Maverick Gao	2012-3-16	<ul style="list-style-type: none"> • modify sound detect_armed param definition • add no-ip ddns related param <p>above is for software version x.x.2.46</p>
1.29	Maverick Gao	2012/5/16	<ul style="list-style-type: none"> • add get_wifi_mac.cgi <p>above is for software version x.x.2.47</p>

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IP Camera CGI Introduction

Here CGI is a Port based on http protocol. Client Programs can operate the camera using the CGI commands. (could be internet page on web or other programs) on the device by the CGI

- cgi security authentication: the cgi listed below all need security authentication when visit. Besides, different cgi port require different permission, there are three level permission: visitor, operator and administrator. But the permission is decided by the user of device. Specific security authentication mechanism supported in two ways: in http protocol, the Basic security authentication mechanism in cgi param, add username and password directly. The way to visit cgi: compare with all http method, the cgi listed in this article only support get and post. Among them, the upgrade_firmware.cgi and upgrade_htmls.cgi only support post, and others only support get.

Get example:

```
<form action="/set_mail.cgi">
<input name="svr"> <input name="user"> <input name="pwd"> <input name="sender">
<input name="receiver1"> <input name="receiver2">
<input name="receiver3">
<input name="receiver4">
<input type="hidden" name="next_url" value="index.htm">
<input type="submit" value="ok">
</form>
```

Post example:

```
<form action="upgrade_firmware.cgi?next_url=index.htm" method="post"
enctype="multipart/form-data">

<input type="file" name="file" size="20">
</form>
```

- cgi's return : according the different return information, this article divide the cgi into two kinds:
 - The cgi to obtain device status and param, include get_status.cgi and get_params.cgi. they return include device status and para' text, the specific format seems like javascript Variable definition to define all the device status or param as variable then return, such as :

```
var id='003456789A0A';
var sys_ver='0.0.1.2';
```



```
var app_ver='0.0.1.3';
var alias="";
var now=1195552193;
var tz=0;
var ntp_enable=1;
var ntp_svr='time.nist.gov';
```

- the cgi to set device param or perform operatering. This kind cgi will return text information include operatering result, such as it will returen "ok" if success and return exact error information if faild, such as :“error: illegal param” indicate that cgi’s param has mistake Besides, if you don’t want to the cgi only return “ok” text
When succeed but a file. In this case, you can add one param into cgi param url: next_url.. The parameter that corresponds to the operation is successful jump to the next file, note that must be a relative path.

Check_user.cgi

- Description: obtain current user’s verify result
- Permission: visitor
- Syntax: /check_user.cgi[?user=&pwd=]
- Return
 - User: current user
 - Pwd: current password
 - pri: current permission
 - 1 visitor
 - 2 operator
 - 3 administrator

snapshot.cgi

- Description: obtain current snapshot
- Permission: visitor
- Syntax: /snapshot.cgi[?user=&pwd=&next_url=]
- **parameter:**
 - next_url: snapshot filename
- Instruction:
 - 0 If there is no next_url parameter,return picture document name is: device id(device alias)_current time.jpg, otherwise the file name is the one that : next_url defined.

Videostream.cgi

- Description: ipcamera use server push mode to send client-end the jpeg video stream.
- Permission: visitor
- Syntax: /videostream.cgi[?user=&pwd=&resolution=&rate=]
- Param:
 - resolution: image resolution 8 320*240 32 640*480
 - rate: image data translate speed value rang 0-23
 - 0: full speed
 - 1: 20fps
 - 3: 15fps
 - 6: 10fps
 - 11: 5fps
 - 12: 4fps
 - 13: 3fps
 - 14: 2fps
 - 15: 1fps
 - 17: 1 fp/2s
 - 19: 1 fp/3s
 - 21: 1 fp/4s
 - 23: 1 fp/5s

videostream.asf

- videostream.asf
- Description: ipcamera send asf. currently only support vlc player and mplayer
- Permission: visitor ptz_center_ptz_center_
- Syntax: /videostream.asf[?user=&pwd=&resolution=&rate=]
- Param:
 - Resolution: image resolution 8: 320*240 32: 640*480
 - Rate: image data translate speed value rang 0-23
 - 0: full speed
 - 1: 20 fps
 - 3: 15 fps
 - 6: 10 fps
 - 11: 5 fps

- 12: 4 fps
- 13: 3 fps
- 14: 2 fps
- 15: 1 fps
- 17: 1 fp/2s
- 19: 1 fp/3s
- 21: 1 fp/4s
- 23: 1 fp/5s

get_status.cgi

- Description: get status
- Authority: N/A
- Syntax: /get_status.cgi
- Return:
 - id: device id
 - sys_ver: firmware version
 - app_ver: web user interface version
 - alias: alias name

Now: the lapse second from 1970-1-1 0:0:0 to device current time.

Timezon: device current time zone setting and the number of seconds deviation of GMT

alarm_status: alarm status: 0:no alarm;1:Motion detection alarm;2:input alarm

ddns_status: DDNS status

0	Non operation
1	Connecting
2	Server Connection error
3	Dyndns succeeded
4	Dyndns failed: system error
5	Dyndns failed: incorrect username or password
6	Dyndns failed: untrusted user
7	DynDns failed: incorrect Domain Name Form registering sites
8	DynDns failed: Domain Name doesn't exist
9	DynDns failed: Domain name doesn't belong to you
10	DynDns failed: too many or too few domain name request
11	DynDns failed: domain name is prevented by abuse
12	DynDns failed: server error
13	DynDns failed: No correct response from the server
14	Oray failed: No correct response from the server

15	Oray failed: incorrect username or password
16	Oray failed: incorrect domain name
17	Oray succeeded
18 .. 28	Reserve
29	3322 succeeded
30	3322 failed: system error
31	3322 failed: incorrect username or password
32	3322 failed: untrusted user
33	3322 failed: incorrect Domain Name Form registering sites
34	3322 failed: Domain Name doesn't exist
35	3322 failed: Domain name doesn't belong to you
36	3322 failed: too many or too few domain name request
37	3322 failed: domain name is prevented by abuse
38	3322 failed: server error
39	3322 failed: No correct response from the server
40...42	Reserve
100	MintDNS succeed
101	MintDNS failed: unknow error
102	MintDNS failed: system error
103	MintDNS failed: incorrect username or password
104	MintDNS failed: need credited user
105	MintDNS failed: the host doesn't exist
106	MintDNS failed: Server error
200	9299 succeed
201	9299 failed: unknow error
202	9299 failed: second level host expired
203	9299 failed: second level host not activated
204	9299 failed: second level host information error incorrect username or password
205	9299 failed: first level host not exist
300	EasyNet succeed
301	EasyNet failed: no permission
302	EasyNet failed: account not exist
303	EasyNet failed: account expired
304	EasyNet failed: account prohibited
405	EasyNet failed: param error
306	EasyNet failed: unknown error
500	No-ip success
501	No-ip failed: account not exist

502	No-ip failed: username or password is incorrect
503	No-ip failed: system error
504	No-ip failed: account not trusted
505	No-ip failed: domain abused
506	No-ip failed: server error
507	No-ip failed: unknown error

ddns_host:ddns host name

oray_type: Oray Service Type, 0: standard; 1: professional

wifi_status: wifi status: 0: cable connection, 1: wifi connection

upnp_status: The current UPnP operation status of the device

0	No operation
1	Success
2	Equipment system error
3	Network communication is error
4	Dialogue is error with the UPnP device
5	UpnP equipment is rejected---may be port is conflicted

msn_status: msn status

0	No operation
1	Success
-1	Equipment system error
-2	Can not connect to server
-3	error catalogue with server
-4	TLS catalogue failure

get_camera_params.cgi

- Description: acquire camera parameter set
- Authorization: Visitors
- Syntax: /get_camera_params.cgi[?user=&pwd=]
- return:

resolution 8: qvga; 32: vga
 brightness: Brightness , 0~255
 contrast: Contrast, 0~6
 mode: Mode , 0: 50hz; 1: 60hz ; 2: outdoor
 flip: Rotation, 0: Original; 1: Vertical Flip; 2: level image;
 3: Vertical Flip + horizontal mirror;

decoder_control.cgi

- Description: decoder control
- Authorization: operator
- Syntax: /decoder_control.cgi?command=[&onestep=°ree=&user=&pwd=&next_url=]
- Parameter:
 - onestep=1: Explain ptz is a single step operation equal to stop, only for the model with ptz functions and applies for up, down, left and right action.
 - Degree: step motor operation angle.
 - Command: action command decoder

values	485 Serial external pelco-d decoder	Built-in motor
0	up	up
1	Stop up	Stop up
2	down	down
3	Stop down	Stop down
4	left	left
5	Stop left	Stop left
6	right	right
7	Stop right	Stop right
8	Small aperture	
9	Stop small aperture	
10	Big aperture	
11	Stop big aperture	
12	The focal length is near	
13	Stop the focal length	
14	The focal length is far	
15	Stop the focal length	

16	Zoom is near	
17	Stop zoom nearer	
18	Zoom is far	
19	Stop zoom is farther	
20	Auto Cruise	
21	Stop automatic cruise	
22	Close switch 1	
23	Disconnect switch 1	
24	Close switch 2	
25	Disconnect switch 2	Center
26	Close switch 3	Cruise up and down
27	Disconnect switch 3	Cruise up and down to stop
28	Close switch 4	Cruise left and right
29	Disconnect switch 4	Stop cruise left and right
30	Set preset position 1	Set preset position 1
31	To the preset position 1	To the preset position 1
...
60	Set preset position 16	Set preset position 16
61	To preset position 16	To preset position 16
...
90	upper-left
91	upper-right
92	Set preset position 32	lower left
93	To the preset position 32	lower right
94	Io Output high	Io output high
95	Io Output low	Io output low
255		Motor test mode

set_extra_io.cgi

- Description: control additional 8 IO which used chipset pca8574.
- Permission: Operator
- Syntax: /set_extra_io.cgi?value=[&user=&pwd=&next_url=]
- Param:
 - Value: io level value bit0-bit7: io0-io7 high and low level value
1: high 0: low

- return: succeed return ok
- Note:
 - The current zoom lens reuse the io4-io7

Camera_control.cgi

- Description: to control camera sensor
- **Permission: Operator**
- Syntax: /camera_control.cgi?param=&value=[&user=&pwd=&next_url=]
- Param:
 - Param: param type
 - value: param value

param	value
0 resolution	2 : qqvga
	8 : qvga
	32 : vga
	0~255
1 brightness	0~6
2 contrast	0 50hz
3 mode	1 60hz
	2 outdoor
	0 initial
5 patrol	1 vertical patrol
	2 horizontal mirror
	3 vertical patrol + horizontal mirror

reboot.cgi

- Description: reboot device
- Permission: administrator
- Syntax: /reboot.cgi[?user=&pwd=&next_url=]

restore_factory.cgi

- Description: restore factory setting
- Permission: administrator
- Syntax: /restore_factory.cgi[?user=&pwd=&next_url=]

get_params.cgi

- Description: Obtain device setting param
- Permission: administrator
- Syntax: /get_params.cgi[?user=&pwd=]
- Return

ID	Device id
sys_ver	Firmware version
app_ver	webUI version
alias	Alias
now	the lapse second from 1970-1-1 0:0:0 to device current time.
tz	device current time zoon setting and the number of seconds deviation of GMT
daylight_saving_time	the number of seconds between Daylight Saving Time and standard time
ntp_enable	0: prohibit ntp timing; 1: permit
ntp_svr	Ntp server
user1_name	User1 username
user1_pwd	User1 password
user1_pri	User1 permission. 0: visitor; 1: operator; 2: administrator
...	
user8_name	User8: username
user8_pwd	User8: password
user8_pri	User8: permission
dev2_alias	The second device alias name
dev2_host	The second device address
dev2_port	The second device port
dev2_user	The second device visitor username
dev2_pwd	The second device visitor password

...	
dev4_alias	The fourth device alias name
dev4_host	The fourth device address
dev4_port	The fourth device port
dev4_user	The fourth device visitor username
dev4_pwd	The fourth device visitor password
ip	ip address
mask	Subnet mask
gateway	Gateway
dns	Dns server
dhcp_vendor	Dhcp vendor class id
port	port
wifi_enable	0: prohibit wifi function 1: permit
wifi_ssid	To add Wifi ssid
wifi_channel	reserve
wifi_mode	reserve
wifi_encrypt	0 : encryption prohibit 1: wep encryption
wifi_authtype	wep Authentication 0: open 1: share
wifi_keyformat	wep Key Format 0: 16 hexadecimal number, 1: ascii character
wifi_defkey	wep Default TX Key
wifi_key1	wep key 1
wifi_key2	wep key 2
wifi_key3	wep key 3
wifi_key4	wep key 4
wifi_key1_bits	wep key 1 length 0: 64 bits 1: 128 bits
wifi_key2_bits	wep key 2 length 0: 64 bits 1: 128 bits
wifi_key3_bits	wep key 3 length 0: 64 bits 1: 128 bits
wifi_key4_bits	wep key 4 length 0: 64 bits 1: 128 bits
wifi_wpa_psk	wpa psk encryption
wifi_country	Area setting 0: North american 1- 11 channel 1: Europe most area of world 1-13 channel 2: 10-11 channel 3: 10-13 channel 4: 14 channel 5: Japan 1-14 channel 6: 3-9 channel 7: 5-13 channel
pppoe_enable	0: prohibit pppoe 1: permit
pppoe_user	Pppoe dial user
pppoe_pwd	Pppoe dial password

upnp_enable	0: prohibit upnp port mapping 1: permit
ddns_service	0 prohibit ddns service
	1 oray.cn
	2 DynDns.org(dyndns)
	3 DynDns.org(statdns)
	4 DynDns.org(custom)
	5 reserve
	6 reserve
	7 reserve
	8 3322(dyndns)
	9: 3322(statdns)
	10: reserve
	11: reserve
	12: reserve
	13: MintDNS
	14: 9299.org
15: EasyNet platform	
17: NO-IP	
ddns_user	Ddns username
ddns_pwd	Ddns password
ddns_host	Ddns host if service=14, as 9299.org, it is level one hostname setting if service=15, as EasyNet platform, it is alarm url setting, for example: http://xxx/api/alarm.aspx
ddns_proxy_svr	if service=13/14, as MintDNS/9299.org, it is visit URL setting, for example: http://www.dynddns.us/nic/update http://www.9299.org/upgengxin.asp if service=15, as EasyNet platform, it is update url setting. for example: http://xxx/api/userip.aspx
ddns_proxy_port	if service=14 like 9299.org it is mode setting
mail_svr	Mail server address
mail_port	Mail server port
mail_tls	If use TLS transport protocol, 0: no 1: TLS 2: STARTLS
mail_user	Mail Server visit user
mail_pwd	Mail Server visit password
mail_sender	Mail sender
mail_receiver1	Mail receiver1
mail_receiver2	Mail receiver 2
mail_receiver3	Mail receiver 3
mail_receiver4	Mail receiver 4

mail_inet_ip	camera inet ip chang, if send notice email or not 0: no 1: yes
ftp_svr	ftp Server address
ftp_port	ftp Server port
ftp_user	ftp visit user
ftp_pwd	ftp Server visit password
ftp_dir	ftp Server upload folder
ftp_mode	0 : port mode 1 : pasv mode
ftp_retain	0 : release connection after upload pictures every time. 1 : remain connection when upload pictures
ftp_upload_interval	upload image interval(second) 0 : prohibit
ftp_filename	ftp filename save
ftp_numberoffiles	ftp file quantity save
ftp_schedule_enable	If use upload scheduler or not
ftp_schedule_sun_0	Sunday upload scheduler, by 24hours everyday, By 15minuts every hour. Hence divided into 96 motion scheduler period; Bit0-95: 0: no upload in this period 1: upload in this period
ftp_schedule_sun_1	
ftp_schedule_sun_2	
ftp_schedule_mon_0	Sunday upload scheduler, by 24hours everyday, By 15minuts every hour. Hence divided into 96 motion scheduler period; Bit0-95: 0: no upload in this period 1: upload in this period.
ftp_schedule_mon_1	
ftp_schedule_mon_2	
ftp_schedule_tue_0	
ftp_schedule_tue_1	
ftp_schedule_tue_2	
ftp_schedule_wed_0	
ftp_schedule_wed_1	
ftp_schedule_wed_2	
ftp_schedule_thu_0	
ftp_schedule_thu_1	
ftp_schedule_thu_2	
ftp_schedule_fri_0	
ftp_schedule_fri_1	
ftp_schedule_fri_2	
ftp_schedule_sat_0	
ftp_schedule_sat_1	
ftp_schedule_sat_2	
alarm_motion_armed	0: alarm_motion_armed; 1: armed
alarm_motion_sensitivity	0-9: high-low

alarm_motion_compensation	Enable alarm motion compensation or not when te light changes suddently. 0: no; 1: yes
alarm_input_armed	0: alarm_input_armed;; 1: armed
alarm_ioin_level	Alarm_ioin_level. 0: low; 1: high
alarm_sounddetect_armed	0: alarm_sound detect_armed; 1-250: armed, value stands for audio detection time. By 1/25sec. Eg. =25, meaning if the detected audio volumn within 1second (25/25=1) is higher than preset value, then camera sends alarm.
alarm_sounddetect_sensitivity	alarm_sound detect_sensitivity 0-9 : high-low
alarm_iolinkage	0: disable io linkage on alarm 1: enable;
alarm_preset	0: disable preset linkage on alarm other: enablepreset linkage on alarm
alarm_ioout_level	0 : disable io linkage on alarm 1: enable
alarm_mail	0: disable sending mail on alarm 1: enable
alarm_upload_interval	alarm_upload_interval seconds 0: disable
alarm_http	0: diable alarm_http to inform 1: enable
alarm_http_url	alarm http url
alarm_schedule_enable	Alarm schedule enable or not
alarm_schedule_sun_0	Sunday alarm plan.24hours/day.
alarm_schedule_sun_1	Divided 24hours to 96 time district, each district for 15 minutes. bit0-95: 0: alarm unarmed at this bit 1: alarm armed
alarm_schedule_sun_2	
alarm_schedule_mon_0	
alarm_schedule_mon_1	
alarm_schedule_mon_2	
alarm_schedule_tue_0	
alarm_schedule_tue_1	
alarm_schedule_tue_2	
alarm_schedule_wed_0	
alarm_schedule_wed_1	
alarm_schedule_wed_2	
alarm_schedule_thu_0	
alarm_schedule_thu_1	
alarm_schedule_thu_2	
alarm_schedule_fri_0	
alarm_schedule_fri_1	
alarm_schedule_fri_2	

alarm_schedule_sat_0	
alarm_schedule_sat_1	
alarm_schedule_sat_2	
decoder_baud	Decoder baud
msn_user	msn user
msn_pwd	msn password
msn_friend1	msn friend 1
msn_friend2	msn friend2
msn_friend3	msn friend3
msn_friend4	msn friend4
msn_friend5	msn friend5
msn_friend6	msn friend6
msn_friend7	msn friend7
msn_friend8	msn friend8
msn_friend9	msn friend9
msn_friend10	msn friend10

upgrade_firmware.cgi

- description: upgrade firmware
- permission: administrator
- syntax:
/upgrade_firmware.cgi[?user=&pwd=&next_url=]
- note: this cgi must use 'post' method, send the file in package which need to be upgraded

upgrade_htmls.cgi

- Description: upgrade firmware permission
- Permission: Administrator
- Syntax: /upgrade_htmls.cgi[?user=&pwd=&next_url=]
- note: This cgi must use 'post' method ,send the file in package which need to be upgraded

set_alias.cgi

- Description: upgrade webpage interface permission
- Permission: Administrator
- Syntax: /set_alias.cgi?alias=[&user=&pwd=&next_url=]
- Param:
alias device alias length <= 20

set_datetime.cgi

- Description: set date & time parameter
- Permission: Administrator
- Syntax:
/set_datetime.cgi?[tz=&daylight_saving_time=&ntp_enable=&ntp_svr=&now=&user=&pwd=&next_url=]
- Parameter:

Now	The lost seconds during the period from 1970-1-1 0:0:0 to the specified time , e.g. attach the parameter,then the device proofread the time according to this time.
tz	Timezone setting the seconds deviate from the standard GMT
daylight_saving_time	Set the different seconds between daylight saving time and the standard time
ntp_enable	0:disable ntp proofread time 1 enable
ntp_svr	Ntp server length <= 64

set_users.cgi

- Description: set User Parameter
- Permission: Administrator

➤ Syntax:

```
/set_users.cgi?user1=&pwd1=&pri1=&user2=&pwd2=&pri2=&user3=&pwd3=&pri3=&user4=&pwd4
=&pri4=&user5=&pwd5=&pri5=&user6=&pwd6=&pri6=&user7=&pwd7=&pri7=&user8=&pwd8=&pri
8=[&user=&pwd=&next_url=]
```

Parameter:

user1	User1name, length <= 12
pwd1	User1 password , length <= 12
pri1	User1Permission, 0: visitor; 1: operator; 2: Administrator
...	
user8	User8 name
pwd8	User8 password
pri8	User8Permission

set_devices.cgi

➤ Description: set multi-device parameter

➤ Permission: Administrator

➤ Syntax:

```
/set_devices.cgi?dev2_alias=&dev2_host=&dev2_port=&dev2_user=&dev2_pwd=&
dev3_alias=&dev3_host=&dev3_port=&dev3_user=&dev3_pwd=&dev4_alias=&dev4_host=&dev4_p
ort=&dev4_user=&dev4_pwd=[&user=&pwd=&next_url=]
```

➤ Parameter:

dev2_alias	dev2_alias, length <= 20
dev2_host	dev2_host, length <= 64
dev2_port	dev2_port
dev2_user	dev2_user, length <= 12
dev2_pwd	dev2_pwd, length <= 12
...	
dev4_alias	dev4_alias
dev4_host	dev4_host
dev4_port	dev4_port
dev4_user	dev4_user
dev4_pwd	dev4_pwd

set_network.cgi

➤ Description: set basic Parameter

➤ Permission: Administrator

- Syntax:
/set_network.cgi?ip=&mask=&gateway=&dns=&port=[&dhcp_vendor=&user=&pwd=&next_url=]
- Parameter:

ip	Ip address,e.g. if set the ip blank,then obtain the ip dynamicly and ignore mask,gateway,dns parameter below.
mask	Subnet mask
gateway	gateway
dns	Dns server
port	port
dhcp_vendor	Dhcp vendor class id

set_wifi.cgi

- Description: set wifi Parameter
- Permission: Administrator
- Syntax:
/set_wifi.cgi?enable=&ssid=&encrypt=&defkey=&key1=&key2=&key3=&key4=
&authtype=&keyformat=&key1_bits=&key2_bits=&key3_bits=&key4_bits=&channel=&mode=&wpa_psk=[&country=&user=&pwd=&next_url=]
- Parameter:

enable	0: disable wifi function 1:enable
ssid	Join wifi network ssid length <= 40
channel	reserved =5
mode	reserved =0
encrypt	0: disable encrypt 1: wep encrypt 2: wpa tkip 3: wpa aes 4: wpa2 aes 5: wpa2 tkip+aes
Authtype	wep authtype 0: open 1: share
keyformat	Wep keyformat 0: 16 hex 1: ascii character
defkey	Wep key selection 0-3
key1	Wep key1, length <= 30
key2	wep key 2
key3	Wep key3
key4	Wep key4
key1_bits	Wep key1 length 0: 64 bits 1: 128 bits
key2_bits	Wep key2 length 0: 64 bits 1: 128 bits
key3_bits	Wep key3 length 0: 64 bits 1: 128 bits
key4_bits	Wep key4 length 0: 64 bits 1: 128 bits
wpa_psk	wpa psk key length <= 64

country	Country set 0: North America 1- 11 channel 1: Europe most parts of the world 1-13 channel 2: 10-11 channel 3: 10-13 channel 4: 14 channel 5: Japan 1-14 channel 6: 3-9 channel 7: 5-13 channel
---------	--

set_pppoe.cgi

- Description: set pppoe setting
- Permission: Administrator
- Syntax: /set_pppoe.cgi?enable=&user=&pwd=&mail_ip=[&cam_user=&cam_pwd=&next_url=]
- Parameter:

enable	0: disable pppoe; 1: enable
user	Pppoe dial account, length <= 64
pwd	Pppoe password, length <= 64

set_upnp.cgi

- Description: set upnp setting
- Permission: Administrator
- Syntax: /set_upnp.cgi?enable=[&user=&pwd=&next_url=]
- Parameter:

enable	0: disable upnp ; 1: enable
--------	-----------------------------

set_ddns.cgi

- Description: set ddns setting
- Permission: Administrator
- Syntax:
/set_ddns.cgi?service=&user=&pwd=&host=&proxy_svr=&proxy_port=[&restart_dyndns=&cam_use
r=&cam_pwd=&next_url=]
- Parameter:

Service	0: disable ddns
	1: oray.cn

	2: DynDns.org(dyndns)
	3: DynDns.org(statdns)
	4: DynDns.org(custom)
	5: reserved
	6: reserved
	7: reserved
	8: 3322(dyndns)
	9: 3322(statdns)
	10: reserved
	11: reserved
	12: reserved
	13: MintDNS
	14: 9299.org
	15: EasyNet communication platform
	17: NO-IP
user	Ddns user, length <= 64
pwd	Ddns password, length <= 64
host	Ddns domain, length <= 64 when service=14, as 9299.org, it is a 1 st level domain settings. When service=15, as EasyNet communication platform, it is alarm url setting, eg. http://xxx/api/alarm.aspx
proxy_svr	Length <= 64 when service=13/14, as MintDNS/9299.org, it is URL settings, eg. http://www.dynddns.us/nic/update 、 http://www.9299.org/upgengxin.asp when service=15, as EasyNet, it is updated url setting, eg. http://xxx/api/userip.aspx
proxy_port	when service=14, as 9299.org, it is mode setting
restart_dyndns	1: restart dyndns; 0: no

set_ftp.cgi

- Description: set ftp setting
- Permission: Administrator
- Syntax:

/set_ftp.cgi?[svr=&port=&user=&pwd=&mode=&retain=&dir=&upload_interval=&filename=&numberoffiles=&schedule_enable=&schedule_sun_0=&schedule_sun_1=&schedule_sun_2=&schedule_mon_0=&schedule_mon_1=&schedule_mon_2=&schedule_tue_0=&schedule_tue_1=&schedule_tue_

2=&schedule_wed_0=&schedule_wed_1=&schedule_wed_2=&schedule_thu_0=&schedule_thu_1=&schedule_thu_2=&schedule_fri_0=&schedule_fri_1=&schedule_fri_2=&schedule_sat_0=&schedule_sat_1=&schedule_sat_2=&cam_user=&cam_pwd=&next_url=]

➤ Parameter:

svr	ftp Server address, length <= 64
port	ftp Server port
user	ftp Server log-in User, length <= 64
pwd	ftp Server log-in password , length <= 64
dir	ftp Server upload catalogue, length <= 64
mode	0: port mode; 1: pasv mode
retain	0: release connection after uploading pictures; 1: retain connection after uploading pictures.
upload_interval	upload_interval seconds 0: disable 0-65535
filename	Filename when upload
numberoffiles	Number of files when upload
schedule_enable	Schedule enable or not
schedule_sun_0	Sunday upload plan.24hours/day. Divided 24hours to 96 time district,each district for 15 munites. bit0-95 0: not upload at this bit 1: upload at this bit
schedule_sun_1	
schedule_sun_2	
schedule_mon_0	
schedule_mon_1	
schedule_mon_2	
schedule_tue_0	
schedule_tue_1	
schedule_tue_2	
schedule_wed_0	
schedule_wed_1	
schedule_wed_2	
schedule_thu_0	
schedule_thu_1	
schedule_thu_2	
schedule_fri_0	
schedule_fri_1	
schedule_fri_2	
schedule_sat_0	
schedule_sat_1	
schedule_sat_2	

set_mail.cgi

- Description: set mail settings
- Permission: administrator
- Syntax:
/set_mail.cgi?svr=&port=&user=&pwd=&sender=&receiver1=&receiver2=&receiver3=&receiver4=&mail_inet_ip=[&tls=&cam_user=&cam_pwd=&next_url=]
- Parameter:

svr	Email Server address, length <= 64
port	Email server port
tls	Whether using TLS transmission protocol, 0: no; 1: TLS; 2: STARTLS
user	EmailServer log-in User, length <= 64
pwd	Email Server log-in password , length <= 64
sender	Email sender , length <= 64
receiver1	Email receiver 1, length <= 64
receiver2	Email receiver 2, length <= 64
receiver3	Email receiver 3, length <= 64
receiver4	Email receiver 4, length <= 64
mail_inet_ip	send mail or not when camera's inet ip changes 0: no 1: yes

set_msn.cgi

- Description: set msn Parameter
- Permission: Administrator
- Syntax:
/set_msn.cgi?[user=&pwd=&friend1=&friend2=&friend3=&friend4=&friend5=&friend6=&friend7=&friend8=&friend9=&friend10=&cam_user=&cam_pwd=&next_url=]
- Parameter:

user	msn User account, length <= 64
pwd	msn account password , length <= 64
friend1	msn friend1, length <= 64
friend2	msn friend2, length <= 64
friend3	msn friend3, length <= 64
friend4	msn friend4, length <= 64
friend5	msn friend5, length <= 64
friend6	msn friend6, length <= 64

friend7	msn friend7, length <= 64
friend8	msn friend8, length <= 64
friend9	msn friend9, length <= 64
friend10	msn friend10, length <= 64

set_alarm.cgi

- Description: set alarm setting
- Permission: Administrator
- Syntax:

/set_alarm.cgi?[motion_armed=&motion_sensitivity=&motion_compensation&input_armed=&sounddetect_enabled=&sounddetect_sensitivity=&iolinkage=&mail=&upload_interval=&schedule_enable=&schedule_sun_0=&schedule_sun_1=&schedule_sun_2=&schedule_mon_0=&schedule_mon_1=&schedule_mon_2=&schedule_tue_0=&schedule_tue_1=&schedule_tue_2=&schedule_wed_0=&schedule_wed_1=&schedule_wed_2=&schedule_thu_0=&schedule_thu_1=&schedule_thu_2=&schedule_fri_0=&schedule_fri_1=&schedule_fri_2=&schedule_sat_0=&schedule_sat_1=&schedule_sat_2=&ioin_level=&iioout_level=&http=&http_url=&preset=&user=&pwd=&next_url=]

- Parameter:

motion_armed	0: motion detection unarmed; 1: armed
motion_sensitivity	0-9: high-low
motion_compensation	Enable alarm motion compensation or not when the light changes suddenly, 0: no, 1: yes
input_armed	0: input_unarmed ; 1: armed
iioin_level	io ioin_level , 0: low, 1: high
sounddetect_armed	0 sounddetect_unarmed 1 armed 1-250: armed, value stands for audio detection time. By 1/25sec. Eg. =25, meaning if the detected audio volumn within 1second (25/25=1) is higher than preset value, then camera sends alarm.
sounddetect_sensitivity	sounddetect_sensitivity, 0-9: high-low
iolinkage	0: disable io linkage on alarm 1: enable
preset	0: disable preset linkage on alarm other enable preset linkage on alarm
iioout_level	iioout_level 0: low 1: high
mail	0: disable sending mail on alarm 1:enabl
upload_interval	alarm_upload_interval seconds -65535
http	0: Disable notifying with http visit on alarm 1: enable
http_url	http url when visit on alarm
schedule_enable	schedule_enable or not
schedule_sun_0	Sunday arm plan.
schedule_sun_1	24hours/day. Divided 24hours to 96 time district,

schedule_sun_2	each district for 15 minutes. bit0-95 0: not upload at this bit 1: upload at bit
schedule_mon_0	
schedule_mon_1	
schedule_mon_2	
schedule_tue_0	
schedule_tue_1	
schedule_tue_2	
schedule_wed_0	
schedule_wed_1	
schedule_wed_2	
schedule_thu_0	
schedule_thu_1	
schedule_thu_2	
schedule_fri_0	
schedule_fri_1	
schedule_fri_2	
schedule_sat_0	
schedule_sat_1	
schedule_sat_2	

comm_write.cgi

- Description: sending data through camera serial port,only support some models
- Permission: operator
- Syntax: /comm_write.cgi?port=&baud=&bytes=&data=[&user=&pwd=&next_url=]
- Parameter:

port: serial port number, 0-3

baud: Port Baud

9: B1200

11: B2400

12: B4800

13: B9600

14: B19200

15: B38400;

4097: B57600

4098: B115200

bytes: bytes when send data < 256

data: when data needs to be sent, pls use url code

set_forbidden.cgi

- Description: set the forbidden for checking video/audio
- Permission: Administrator
- Syntax:


```
/set_forbidden.cgi?schedule_enable=&schedule_sun_0=&schedule_sun_1=&schedule_sun_2=&schedule_mon_0=&schedule_mon_1=&schedule_mon_2=&schedule_tue_0=&schedule_tue_1=&schedule_tue_2=&schedule_wed_0=&schedule_wed_1=&schedule_wed_2=&schedule_thu_0=&schedule_thu_1=&schedule_thu_2=&schedule_fri_0=&schedule_fri_1=&schedule_fri_2=&schedule_sat_0=&schedule_sat_1=&schedule_sat_2=[&user=&pwd=&next_url=]
```
- Parameter:

schedule_enable	Plan to forbidden to check video/audio
schedule_sun_0	Sunday arm plan.
schedule_sun_1	24hours/day.
schedule_sun_2	Divided 24hours to 96 time district, each district for 15 minutes. bit0-95 0: not upload at this bit 1: upload at bit
schedule_mon_0	
schedule_mon_1	
schedule_mon_2	
schedule_tue_0	
schedule_tue_1	
schedule_tue_2	
schedule_wed_0	
schedule_wed_1	
schedule_wed_2	
schedule_thu_0	
schedule_thu_1	
schedule_thu_2	
schedule_fri_0	
schedule_fri_1	
schedule_fri_2	
schedule_sat_0	
schedule_sat_1	
schedule_sat_2	

get_forbidden.cgi

- Description: get the forbidden for checking video/audio
- Permission: Administrator
- Syntax: /get_forbidden.cgi[?user=&pwd=]
- Return: see set_forbidden.cgi

set_misc.cgi

- Description: set misc parameters of camera
- Permission: Administrator
- Syntax:
/set_misc.cgi?[led_mode=&ptz_center_onstart=&ptz_auto_patrol_interval=&ptz_auto_patrol_type=
&ptz_patrol_h_rounds=&ptz_patrol_v_rounds=&ptz_disable_preset=&ptz_preset_onstart&user=&pwd=
&next_url=]
- Parameter:
 - led_mode : 0: mode1 1: mode2 2: shut off the led
 - ptz_center_onstart=1, ptz_center_onstart
 - ptz_auto_patrol_interval: ptz_auto_patrol_interva =0 no auto rotating
 - ptz_auto_patrol_type: 0: no rotate 1: horizontal 2: vertical 3: horizontal + vertical
 - ptz_patrol_h_rounds: ptz_patrol_h_rounds 0: infinite
 - ptz_patrol_v_rounds: ptz_patrol_v_rounds 0: infinite ptz_patrol_rate
 - ptz_patrol_rate : 0-100 0: the fastest ptz_patrol_up_rate
 - ptz_patrol_up_rate: 0-100 0: the slowest ptz_patrol_down_rate
 - ptz_patrol_down_rate : 0-100 0: the slowest ptz_patrol_left_rate
 - ptz_patrol_left_rate: 0-100 0: the slowest
 - ptz_patrol_right_rate: ptz_patrol_right_rate 0-100 0: the slowest
 - ptz_disable_preset: ptz_disable_preset: 0: no 1: yes (take effect after reboot)
 - ptz_preset_onstart: ptz_preset_onstart 0: disable

get_misc.cgi

- Description: obtain misc parameters of camera

- Permission: Administrator
- Syntax: /get_misc.cgi[?user=&pwd=]
- Return: see get_misc.cgi

set_decoder.cgi

- Description: set the parameter for decoder
- Permission: Administrator
- Syntax: /set_decoder.cgi?baud=[&user=&pwd=&next_url=]
- Parameter:
 - baud:
 - 9: B1200
 - 11: B2400
 - 12: B4800
 - 13: B9600
 - 14: B19200
 - 15: B38400;
 - 4097: B57600
 - 4098: B115200

wifi_scan.cgi

- Description: to order the camera to scan wifi
- Permission: Administrator
- Syntax: /wifi_scan.cgi [?user=&pwd=&next_url=]
- Parameter: no

get_wifi_scan_result.cgi

- Description: obtain result of camera scan wifi
- Permission: Administrator
- Syntax: /get_wifi_scan_result.cgi[?user=&pwd=]
- return:
 - var ap_bssid=new Array();
 - var ap_ssid=new Array();
 - var ap_mode=new Array();
 - var ap_security=new Array();
 - ap_bssid[0]='0015ebbe2153';

```
ap_ssid[0]='ZXDSL531BII-BE2153';
ap_mode[0]=0;
ap_security[0]=0;
ap_bssid[1]='00223f176d70';
ap_ssid[1]='nony';
ap_mode[1]=0;
ap_security[1]=2;
ap_bssid[2]='001d0f3fef40';
ap_ssid[2]='Calvin&Cici';
ap_mode[2]=0;
ap_security[2]=1;
ap_bssid[3]='0022b0f5ce72';
ap_ssid[3]='CX';
ap_mode[3]=0;
ap_security[3]=1;
ap_bssid[4]='001c1042b6b7';
ap_ssid[4]='ipcamera';
ap_mode[4]=0;
ap_security[4]=2;
var ap_number=5;
```

Among those,

ap_number: The scanned ap number

ap_bssid: The scanned ap bssid

ap_ssid: The scanned ap ssid

ap_mode: The scanned ap mode, 0: infra; 1: adhoc (not supported)

ap_security: The scanned ap security mode,

0: no;

1: WEP;

2: WPAPSK(TKIP);

3: WPAPSK(AES);

4: WPA2PSK(AES);

5: WPA2PSK(TKIP);

6: security mode do not support

get_log.cgi

- Description: obtain log of the camera

- Permission: Administrator
- Syntax: /get_log.cgi[?user=&pwd=]
- return log info e.g.:
var log_text='Mon, 2009-08-03 19:53:04 ipcamera 192.168.0.16 access\nMon,
2009-08-03 20:13:03 admin 192.168.0.16 access\n';
Among which log text variable for the log info,use '\n' to separate every log info.

test_mail.cgi

- Description: Email test function
- Permission: Administrator
- Syntax: /test_mail.cgi[?user=&pwd=]
- Return:
result: test result
 - 0: succeed
 - 1: can't connect Server
 - 2: network Error
 - 3: Server Error
 - 4: incorrect User
 - 5: incorrect password
 - 6: sender is rejected
 - 7: receiver is rejected
 - 8: text is rejected
 - 9: Authentication is not accepted
 - 10: internal error
 - 11: device does not support TLS/STARTTLS protocol
 - 12: invalid Parameter
 - 13: Server doesn't support TLS/STARTTLS protocol

test_ftp.cgi

- Description: ftp test function
- Permission: Administrator
- Syntax: /test_ftp.cgi[?user=&pwd=]
- return:
result: test result
 - 0: succed
 - 1: can't connect to server

- 2: network Error
- 3: Server Error
- 4: incorrect User
- 5: incorrect password
- 6: incorrect catalogue
- 7: pasv mode Error
- 8: port mode Error
- 9: stor command Error

backup_params.cgi

- Description: back up the current parameter settings
- Permission: Administrator
- Syntax: /backup_params.cgi[?user=&pwd=]
- Return: params.bin file

restore_params.cgi

- Description: restore backup parameter settings
- Permission: Administrator
- Syntax: /restore_params.cgi[?user=&pwd=&next_url=]
- Note: The cgi must use the post method, pack the previous backup parameter set file and send it to the ip camera

set_factory_params.cgi

- Description: set factory parameter
- Permission: Administrator
- Syntax: /set_factory_params.cgi[?user=&pwd=&next_url=]
- note: The cgi must use the post method, pack the factory parameter set file and send it to the ip camera. Keep the file format and CAMERA_PARAMS format the same.

set_mac.cgi

- Description: set the camera's mac address

- Permission: Administrator
- Syntax: /set_mac.cgi?mac=[&user=&pwd=&next_url=]
- Parameter:
mac: mac address: e.g. mac=0012a0746f01

set_factory_ddns.cgi

- Description: set ddns setting, and set it as factory default value
- Permission: Administrator
- Syntax:
/set_factory_ddns.cgi?[service=&user=&pwd=&host=&proxy_svr=&proxy_port=&cam_user=&cam_pwd=&next_url=]
- Parameter:

service	0: disable ddns service
	1: oray.cn
	2: DynDns.org(dyndns)
	3: DynDns.org(statdns)
	4: DynDns.org(custom)
	5: reserved
	6: reserved
	7: reserved
	8: 3322(dyndns)
	9: 3322(statdns)
	10: reserved
	11: reserved
	12: reserved
	13: Mint DNS
14: 9299.org	
user	Ddns User, length <= 64
pwd	ddns password , length <= 64
host	Ddns domain, length <= 64 when service=14, as 9299.org, it is Level 1 domain setting
proxy_svr	length <= 64 when service=13/14, as MintDNS/9299.org , it is to visit URL setting, e.g.: http://www.dynddns.us/nic/update 、 http://www.9299.org/upgengxin.asp
proxy_port	when service=14, as 9299.org, it is mode setting
restart_dyndns	1: restart dyndns; 0: no

get_factory_ddns.cgi

- Description: get device ddns factory Parameter setting
- Permission: Administrator
- Syntax: /get_factory_ddns.cgi[?user=&pwd=]
- return:

factory_ddns_service	0	disable ddns service
	1	oray.cn
	2	DynDns.org(dyndns)
	3	DynDns.org(statdns)
	4	DynDns.org(custom)
	5	reserved
	6	reserved
	7	reserved
	8	3322(dyndns)
	9	3322(statdns)
	10	reserved
	11	reserved
	12	reserved
	13	MintDNS
	14	9299.org
factory_ddns_user	Ddns User	
factory_ddns_pwd	ddns password	
factory_ddns_host	ddnsdomain when service=14, as 9299.org, it is 1 st level domain setting	
factory_ddns_proxy_svr	when service=13/14, as MintDNS/9299.org, it is to visit URL, e.g.: http://www.dynddns.us/nic/update 、 http://www.9299.org/upgengxin.asp	
factory_ddns_proxy_port	when service=14, as 9299.org, it is mode setting	

restore_factory_ddns.cgi

- Description: restore device ddns factory default value
- Permission: Administrator
- Syntax:
/restore_factory_ddns.cgi[?user=&pwd=&next_url=]

get_wifi_mac.cgi

- Description: get wifi module's mac address
- Permission: Administrator
- Syntax:
/get_wifi_mac.cgi[?user=&pwd=]
- return:

mac	Wifi Module's mac address
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