

VPort CGI Commands User's Manual

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VPort CGI Commands User's Manual

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VPort CGI Commands

The following topics are covered in this chapter:

- **Overview**
- **Release Notes**
- **General CGI URL Syntax and Parameters**
- **VPort Set/Get Configuration CGI URL and Parameter items**
 - > system
 - > ftpdaemon
 - > localstorage
 - > syslog
 - > systemio
 - > security
 - > network
 - > http
 - > ipfilter
 - > upnp
 - > ddns
 - > snmp
 - > modbus
 - > rtsp
- **MJPEG Mode Media Stream CGI URL**
 - > video
- **Recording Service of CGI URL Command Sets and Parameters**
 - > record.cgi
 - > sdutil.cgi
 - >
- **PTZ Control of CGI URL Command Sets and Parameters**
 - > setptzctrl.cgi
 - > setptzconfig.cgi
- **DynaStream Control CGI URL**
 - **Get Snapshot CGI URL**
 - **Remove PTZ Driver CGI URL**
 - **Device Reboot CGI URL**
 - **Get I/O Status CGI URL**
 - **System Information CGI URL**

Overview

This document describes the CGI commands that are used with Moxa (ONVIF) IP cameras. Commands are included for set/get configuration parameters and PTZ control.

Release Notes

Version 1.0

Includes CGI commands for ONVIF V2.0

General CGI URL Syntax and Parameters

The CGI commands are organized in function-related directories under the moxa-cgi directory, and are followed by one of two actions: **setParam.cgi** or **getParam.cgi**. The file extension of the CGI is required. Parameters are written in lower-case and structured by section and item. When the CGI request includes parameters, the parameters must be written exactly as shown in this document.

Syntax:

http://</p>/moxa-cgi/<action>.cgi? [<sect/on>_<item> = <value> [& <sect/on>_<item> = <value> ...]]

Method:

GET/POST

Response:

HTTP/1.0 200 OK\r\n

Content-Type:

text/plain\r\n

\r\n

< sect/on>_<item> = <value>\n

< sect/on>_<item> = <value>\n

When the action of the CGI command is setParam.cgi, <parameter pair> will not be returned.

If the CGI command of getParam.cgi includes an invalid parameter name, the server will not return the value of the invalid parameter. When the CGI command of setParam.cgi includes an invalid parameter name, the server will not return the value of the invalid parameter.

Example:

http://192.168.127.100/moxa-cgi/setParam.cgi?http_httpport=80&rtsp_rtspport=554

Response from VPort

HTTP/1.0 200 OK\r\n

Content-Type:

text/plain\r\n

\r\n

http_httpport=80\r\n

rtsp_rtspport=554\r\n

VPort Set/Get Configuration CGI URL and Parameter items

These parameters are used for different VPort function sections. The parameters include system information, security, network, video, audio, and alarm. Every section has one or many items. Detailed information about sections and items is shown in the table below.

getparam.cgi

setparam.cgi

Section names are typed in bold-face at the top of each table (e.g., system).

Example:

`http://<ip>/moxa-cgi/getParam.cgi?videoencoder01_resolutionidx` (to get the video resolution)

`http://<ip>/moxa-cgi/setParam.cgi?videoencoder01_resolutionidx=2` (to set the video resolution with 2)

Character set information

Name of Character Set	Available Characters
BasicString	abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
ExtensiveString	BasicString!^*()_{}[]:./?-
UsernameString	BasicString .
PasswordString	BasicString !^~`
MailAddressString	BasicString@.-
HostAddressString	BasicString_-
FolderString	BasicString:V_-
URLString	BasicString_-:/
CGIString	BasicString_-%+&=
CustCamString	abcdefABCDEF0123456789,

system

Item	Action	Value	Description
hostname	G/S	Max 40 char (string)	Server name
timezone	G/S	-12 to 13 14	Time zone setting 14: manual tzstring
ntpserver01	G/S	Max 40 char (string)	NTP server IP or URL

ntpserver02			
updateinterval	G/S	5, 10, 15, 30, 60, 300, 900, 1800, 2700, 3600, 86400, 604800, 2592000	
firmwareversion	G	xx.yy.zz	Firmware version
hwversion	G		
macaddress	G	aa:bb:cc:dd:ee:ff (string)	Mac address
modelname	G	EX: VPort 36	Model name
serialnumber	G	xxxxx	Product serial number
description	G		
biosversion	G		
firmwarebuildtime	G	yyymmddhh	Firmware build time
date	G/S	2013/12/13	YYYY/mm/dd
time	G/S	00:00:00	hh:mm:ss
timemethod	G/S	1: Keep current date and time 2: Sync with computer time 3: Manual 4: Automatic (NTP)	Server time adjustment method
configfileversion	G		
magiccode	G		
contact	G/S	0~80	
location	G/S	0~80	
tzstring	G/S	0~80 (Posix format string)	

Example:

Change Server Time:

http://ip/moxa-cgi/setParam.cgi?system_timemethod=3&date=yyyy/mm/dd&time=hh:mm

:ss

Set NTP:

http://ip/moxa-cgi/setParam.cgi?system_timemethod=4&ntpserver=bitsv.mit.edu&timezone=e=8&updateinterval=3600

ftpdaemon

Item	Action	Value	Description
------	--------	-------	-------------

enable	G/S	0: disable, 1: enable	For local storage
port	G/S	1~65536	

localStorage

Item	Action	Value	Description
autoreboot	G/S	0: disable, 1: enable	

syslog

Item	Action	Value	Description
enable	G/S	0: disable, 1: enable	Sys Log Setting
syslogserver01	G/S	0~60 char	
syslogserver02			
syslogport01	G/S	1~65536	
syslogport02			

systemio

Item	Action	Value	Description
do01idlestate	G/S	0: Close, 1: Open	DO1 Status
do01bitmono	G/S	0: Monostable, 1: Bitstable	
do01activesec	G/S	1~3600	seconds
di01	G	0: Low , 1: High	
di01activetype	G	0: noActive, 1: Low, 2: High, 3: Rising, 4: Failing	
didectduration	G/S	100 ~ 10000	DI detect duration (msec.)

security

Item	Action	Value	Description
authmode	G/S	0: disable, 1: enable	authentication enable
username01	G	Admin	Administrator account
userpass01	G/S	Max 14 char (BasicString)	Administrator password
userattr01	G	talk camctrl do1 do2 conf	Administrator privileges

		talk : Audio Output camctrl : PTZ Control dol : DO1 Control do2 : DO2 Control conf : Configuration	
username02 to usernamell	G/S	Max 16 char (BasicString)	User2 to Userl0 account
userpass02 to userpassll	G/S	Max 14 char (BasicString)	Userl to Userl0 password
userattr 02 to userattrll	G/S	camctrl dol do2 camctrl : PTZ Control dol : DOI Control do2 : DO2 Control	User2 to User 10 privileges of PTZ, DO1, and DO2 control right. *Item camctrl only support the model with PTZ Port *Item DO2 only support the model with second relay output.
userrole02 to userrolell	G/S	0: Anonymous, 1: User, 2: Operator 3: Administrator	User's privileges

network

Item	Action	Value	Description
networktype	G/S	1: Get IP address automatically 2: Use fixed IP address 3: DHCP + DHCP option 66/67	Method used to get the IP address
ipaddress	G/S	xxx.yyy.zzz.www	IP address
subnet	G/S	xxx.yyy.zzz.www	Subnet mask
router	G/S	xxx.yyy.zzz.www	Default Gateway
dns01	G/S	xxx.yyy.zzz.www	First DNS IP address
dns02	G/S	xxx.yyy.zzz.www	Second DNS IP address
dnsmanual01	G/S	xxx.yyy.zzz.www	First Manual DNS IP address
dnsmanual02	G/S	xxx.yyy.zzz.www	Second Manual DNS IP address
dnstype	G/S	1 or 2 1: Use DNS Setting from DHCP 2: Manual DNS Settings	
clientid	G/S		DHCP Client ID
dhcpserverio	G/S		DHCP Server ID

http

Item	Action	Value	Description
httpport	G/S	1 to 65535	HTTP server port number
httpsport	G/S	1 to 65536	HTTPS server port number

ipfilter

Item	Action	Value	Description
aNowip01 to aNowip10	G/S	xxx.yyy.zzz.www	IP address of Accessible IP List 01 to 10
allowmask01 to allowmask10	G/S	xxx.yyy.zzz.www	Subnet mask of Accessible IP List 01 to 10
enable	G/S	1: enable "Accessible IP list" function 0: disable "Accessible IP list"	Enable or disable "Accessible IP list" function

upnp

Item	Action	Value	Description
enable	G/S	0: disable UPnP 1: enable UPnP	Enable/disable UPnP function

ddns

Item	Action	Value	Description
enable	G/S	1: enable DDNS function 0: disable DDNS function	Enable or disable DDNS function
provider	G/S	1: DynDNS.org(Dynamic) 2: DynDNS.org(Custom) 3: TZO.com 4: dhs.org	Select the DDNS provider
hostname	G/S	Max 60 char (HostAddressString)	Registration host name for DDNS server
usernameemail	G/S	Max 60 char (HostAddressString)	Registration host name for DDNS server
passwordkey	G/S	Max 20 char (PasswordString)	Password or key for the DDNS account

snmp

Item	Action	Value	Description
versions	G/S	1: V1, V2c, V3 2: V1, V2c 3: V3 only	SNMP version
rocomm	G/S	Max 40 char (ExtensiveString)	V1,V2c Read Community
rwcomm	G/S	Max 40 char (ExtensiveString)	V1,V2c Write/Read Community
adminauthtype	G/S	1: No-Auth 2: MD5 3: SHA	Administrator authentication type
admindpvkey	G/S	Max 40 char (ExtensiveString)	Administrator Data Encryption Key
enableadpvkey	G/S	1: enable administrator encryption key 0: disable administrator encryption key	Enable/Disable administrator encryption key
trapserver01, trapserver02	G/S	Max 40 char (HostAddressString)	First and second TRAP server IP or URL
trapcomm01, trapcomm02	G/S	Max 40 char (ExtensiveString)	First and second TRAP community

modbus

Item	Action	Value	Description
Enable	G/S	0: Disable 1: Enable	Enable modbus/TCP <i>Models supported:</i>

rtsp

Item	Action	Value	Description
Rtspport	G/S	1 to 65535 Default Value: 554	RTSP server port number
udpaccessname	G	Upstream	RTSP unicast access name <i>Read only, fixed string</i>
Multicastaccessname	G	Multicaststream	RTSP multicast access name <i>Read only, fixed string</i>
httpaccessname	G	Upstream	HTTP unicast access name <i>Read only, fixed string</i>

RTSP (Real Time Streaming Protocol): Streaming on Moxa VPorts follows the RFC 2326 standard. VPort streaming supports different RTSP connection modes, including unicast (UDP), unicast (RTSP over TCP), unicast (RTSP over HTTP Tunnel), and multicast.

RTSP keep-alive mechanism: When using RTSP, the Moxa VPort uses the keep-alive mechanism to check whether the client is still alive or not. For the "SETUP" response, the "timeout" item is inserted into the "session" header. The value of the "timeout" item is 60 seconds. The client needs to send an "OPTIONS" request to reset the timeout timer. If the client doesn't send an "OPTIONS" value of more than 30 seconds, then the MOXA VPort sends the "SET_PARAMETER" request to the client. The client should respond to the request ("200 OK" is the usual response, but any response is okay). When the client doesn't send an "OPTIONS" request or "SET_PARAMETER" response of over 60 seconds, then the MOXA VPort will shut down the client's connection.

RTSP access naming rule for multiple video streams: An RTSP client player, such as VideoLAN VLC Media Player, can use the RTSP URL to access VPort.

RTSP URL Syntax Format supported by VPort:

`rtsp://<ip address>:<rtsp port>/access Name_(channel index)_(stream index)_(codec type)`

Example: `rtsp://192.168.127.100:554/udpstream_ch4_stream1_h264` (test by VLC version 1.1.5)

Setting an RTSP URL in VLC media player

RTSP over HTTP Tunnel access name:

HTTP URL Syntax Format:

`rtsp://<ip>:<http port>/moxa-cgi/access name`

example: `rtsp://192.168.127.100/moxa-cgi/udpstream`

Reserved below CGI format to compatible with old CGI command

`rtsp://<ip>:<http port>/moxa-cgi/access name_(channel index)_(stream index)_(codec type)`

Table of Access Names, for all models:

Models	Access Name
IP Camera	H.264 codec of stream 1: updstream or

	udpstream_ch1 or udpstream_ch1_stream1 or udpstream_ch1_stream1_h264 H.264 codec of stream 2: udpstream_ch1_stream2 or udpstream_ch1_stream2_h264
--	--

Note: MJPEG video streaming can be implemented with different streaming protocols and by using HTTP push technology ([http://en.wikipedia.org/wiki/Push_technology#HTTP server push](http://en.wikipedia.org/wiki/Push_technology#HTTP_server_push)), which is popular with IP video related products. Refer to the section that discusses the MJPEG Mode Media Stream CGI URL.

video encoder

This section describes CGI commands for IP cameras.

For example, the CGI command format to get information about the video is: `http://<server>/moxa-cai/aetparam.cai?videoencoder01_encodina`

The CGI command format for setting the video resolution is:

`http://<server>/moxa-cai/setparam.cai?videoencoder01_resolutionidx=1`

Item	Action	Value	Description
videoencoder01_encodina	G/S	0: MJPEG 2: H.264	Encoder Type
videoencoder02_encodina			
videoencoder03_encodina			
videoencoder01_resolutionidx	G/S	1(1280x800), 2(1280x720), 3(800x600), 4(720x480 or 720x576), 5(704x480 or 704x576) 6(640x480), 7(352x240 or 352x288), 8(320x240), 9(176x112 or 176x144)	Video resolution
videoencoder02_resolutionidx			
videoencoder03_resolutionidx			
videoencoder01_frameratelimit	G/S	1~ 30 (frame rate)	Maximum frame rate (fps)
videoencoder02_frameratelimit			
videoencoder03_frameratelimit			
videoencoder01_aov	G/S	Default Value: 15	Key frame interval <i>Read only, fixed value.</i>
videoencoder02_aov			
videoencoder03_aov			
videoencoder01_mttl	G/S	1 to 255	TTL value of multicast packet
videoencoder02_mttl			
videoencoder03_mttl			

videoencoder02_mttl videoencoder03_mttl			
videoencoder01_mlip videoencoder02_mlip videoencoder03_mlip	G/S	Multicast Group Address	Multicast group address
videoencoder01_mlautostart videoencoder02_mlautostart videoencoder03_mlautostart	G/S	0: Disable 1: Enable	Auto start multicast streaming
videoencoder01_quality videoencoder02_quality videoencoder03_quality	G/S	1:Excellent 2:Detailed 3:Good 4:Standard 5:Medium	Encoding quality
videoencoder01_bitratelimit videoencoder02_bitratelimit videoencoder03_bitratelimit	G/S	400kbps to 12000kbps	Bit rate Limit

audio

Item	Action	Value	Description
source	G/S	1: Line in 2: Microphone	Audio input type

MJPEG Mode Media Stream CGI URL

JPEG video streaming is implemented using HTTP push technology

(http://en.wikipedia.org/wiki/Push_technology#HTTP_server_push), which is popular for IP video products. VLC media player is also compatible with the MJPEG HTTP push protocol.

mjpeg.cgi

pcm.cgi

These command are used to get the MJPEG video stream and audio stream. Example: To get MJPEG video stream:

<http://192.168.127.100/moxa-cgi/mjpeg.cgi>

Example: To get audio stream: <http://192.168.127.100/moxa-cgi/pcm.cgi>

Recording Service of CGI URL Command Sets and Parameters

These parameters are used for recording function which supported by those products that provide storage of recordings

NOTE This section is used to start and stop recordings from a camera.

record.cgi

These commands are used to control start and stop recordings.

Example: To start channel 1 recording:

`http://192.168.127.100/moxa-cgi/record.cgi?channel01=alwaysrun` Example: To stop channel 1 recording:

`http://192.168.127.100/moxa-cgi/record.cgi?channel01=forcestop`

Item	Value	Description
channel01	<i>alwaysrun</i>	<i>Start Recording</i>
channel01	<i>forcestop</i>	<i>Stop Recording</i>

sdutil.cgi

This command is used to handle SD card via linux file system.

Item	Value	Description
cmd	<i>mount/unmount/fsck</i>	<i>Storage command through CGI</i>

PTZ Control of CGI URL Command Set

[Except VPort 66 Series]

Parameters

PTZ Control CGIs are used to control the PTZ action of cameras and devices. The CGIs are organized by function-related directories under the moxa-cgi directory, and are followed by one of two actions: `setptzctrl` and `setpreset`. The file extension of the CGI is required. The first parameter **move** indicates the command of this request. The next parameter is **item**; note that "item" must be written exactly the same as shown in this document.

NOTE This section is for VPorts that have a PTZ port or COM port for controlling a camera.

setptzctrl.cgi

These commands are used to control PTZ movement, default token value is ptzconfig01 showed as "Config Name" on the web page of cameras.

Example: To command PTZ camera to pan up at speed 3:

<http://192.168.127.100/moxa-cgi/setptzctrl.cgi?ctoken=ptzconfig01&move=up&speedtilt=3>

Example: To command PTZ camera to go to preset position 12:

<http://192.168.127.100/moxa-cgi/setptzctrl.cgi?ctoken=ptzconfig01&move=gopreset&speedpan=8&speedtilt=8&speedzoom=8>

Item	Value	Description
move	zin/zout/left/right/up/down/upleft/upright/downleft/downright speedpan=[1~16] speedtilt=[1~16] speedzoom=[1~16] ctoken=[ReferenceToken] or channel(alternative)	PTZ continues move
move	gopreset/home speedpan=[1~16] (optional) speedtilt=[1~16] (optional) speedzoom=[1~16] (optional) ctoken=[ReferenceToken] or channel(alternative)	go to home go to preset
move	irisopen/irisclose/irisstop/wiperon/wiperoff/washon/ washoff...(Auxiliary cmd) ctoken=[ReferenceToken] or channel(alternative)	send PTZ auxiliary command

setptzconfig.cgi

This function is used to edit the preset position of the PTZ camera. There are seven "move" values.

Item	Value	Description
move	setconfig ptzdefspeedp=[1~16] ptzdefspeedt=[1~16] ptzdefspeedz=[1~16] ptzdeftimeout=[500~10000] ptzcfgname ptzcameraid=[0~255] returnpage ctoken=[ReferenceToken] or channel(alternative)	Set PTZ config content
move	deletepreset recall = [0~127] ctoken=[ReferenceToken] or channel(alternative)	add/delete/edit preset
move	addpreset ctoken=[ReferenceToken] speedpan=[1~16] (optional) speedtilt=[1~16] (optional) speedzoom=[1~16] (optional) presetname ctoken=[ReferenceToken] or channel(alternative)	
move	editpreset recall = [0~127] speedpan=[1~16] speedtilt=[1~16] speedzoom=[1~16] presetname ctoken=[ReferenceToken] or channel(alternative)	
move	sethome speedpan=[1~16] speedtilt=[1~16] speedzoom=[1~16] ctoken=[ReferenceToken] or channel(alternative)	set home

move	addcustom customcmd customname ctoken=[ReferenceToken] or channel(alternative)	add/delete custom command
move	removecustom customname ctoken=[ReferenceToken] or channel(alternative)	

The maximum number of preset positions is 128.

VPort 66's PTZ Command

Abstract: More detail CGI command for describing VPort 66's PTZ behavior

setptzctrl.cgi

Example: To command PTZ camera to pan up at speed 3 for 1sec:

<http://192.168.127.100/moxa-cgi/setptzctrl.cgi?ctoken=ptzconfig01&move=up&speedtilt=3&timeout=1>

Example: To command PTZ camera to go to preset position 12:

<http://192.168.127.100/moxa-cgi/setptzctrl.cgi?ctoken=ptzconfig01&move=gopreset&speedpan=8&speedtilt=8&speedzoom=8&recall=12>

Item	Value	Description
move	[left,right, up, down, upleft,upright, downleft, downright, zoomwide, zoomtele, focusnear, focusfar] speedpan=[1~16] speedtilt=[1~16] speedzoom=[1~16] speedfocus=[1~16] timeout=[0~6000]	PTZ continues move

move	[gopreset, gohome] speedpan=[1~16] (optional) speedtilt=[1~16] (optional) speedzoom=[1~16] (optional) recall=[1~128] (optional preset point)	go to home go to preset
move	[irisopen, irisclose, autoiris, pstop,, tstop, zstop, fstop, irisstop, stop, addpreset, gopreset,, clearpreset, sethome, gohome, wiperon, wiperoff, washon, washoff, tourpause, tourstart, tourstop, resetptz]	send PTZ auxiliary command

setptzconfig.cgi

This function is used to edit the preset position of the VPort 66's PTZ behavior. There are five "move" values.

Example: Add preset position "Door":

```
http://192.168.127.100/moxa-cgi/setptzconfig.cgi?ctoken=ptzconfig01&move=addpreset&  
speedpan=8&speedtilt=8&speedzoom=8&presetname=Door
```

Example: Edit preset position "Door":

```
http://192.168.127.100/moxa-  
cgi/setptzconfig.cgi?ctoken=ptzconfig01&move=editpreset&recall=1&presetname=Door&  
speedpan=8&speedtilt=8&speedzoom=8
```

Item	Value	Description
move	setconfig ptzdefspeedp=[1~16] ptzdefspeedt=[1~16] ptzdefspeedz=[1~16] ptzdeftimeout=[500~10000] ptzcfgname ptzcameraid=[0~255]	Set PTZ config content
move	deletepreset recall = [0~127]	add/delete/edit preset
move	Addpreset speedpan=[1~16] (optional) speedtilt=[1~16] (optional) speedzoom=[1~16] (optional) presetname= [name]	
move	editpreset recall = [0~127] presetname= [name] speedpan=[1~16] speedtilt=[1~16] speedzoom=[1~16] (optional)	
move	sethome speedpan=[1~16] speedtilt=[1~16] speedzoom=[1~16]	set home

Note: The maximum number of preset positions is 128.

getptzpstlist.cgi

This function is used to get the list of preset positions.

Show the preset point list in html format

<http://192.168.127.100/moxa-cgi/getptzpstlist.cgi?ctoken=ptzconfig01>

Show the simple preset point list:

Item	Value	Description
type	list	<p>Get a list of the relationship between “recall” and “preset name”.</p> <p>Ex.</p> <p>http://192.168.127.100/moxa-cgi/getptzpstlist.cgi?ctoken=ptzconfig01&type=list</p> <p>Result. <recall number,preset name\r\n></p> <ul style="list-style-type: none"> 1,Front_dest 2,Ceiling 3,Map 4,Door

VPort Serial CGI URL Command Sets and Parameters

setserialport.cgi

These commands are used to control serial settings, default token value is serialportconfig01.

Example: To set uartmode to RS232:

<http://192.168.127.100/moxa-cgi/setserialport.cgi?stoken=serialportconfig01&uartmode=0>

Item	Value	Description
stoken	Default value=serialportconfig01	Set serialport configuration
uartmode	[0,1,2] // 0=RS232, 1=RS485, 2=RS422	
baudrate	[110,300,600,1200,2400,4800,9600,19200,38400,57600,115200]	
databits	[5,6,7,8]	
stopbits	[0,1,2] // 0=1.5, 1 = 1, 2=2	
paritybits	[0,1,2] // 0=None, 1=Odd, 2=Even	
ptzdriver	[1~10]	
controlmode	[0,1] // 0=transparent PTZ , 1=driver	
returnpage		

DynaStream Control CGI URL

Moxa DynaStream is a useful and easy way to control VPort video streaming's bandwidth consumption. DynaStream can be configured to automatically adjust the frame rate for a set period of time when triggered.

dynastream.cgi

These commands are used to control DynaStream.

Example: To enable DynaStream in channel 2 for 15 second duration:

<http://192.168.127.100/moxa-cgi/dynastream.cgi?channel=2&mode=15> Example: To stop DynaStream immediately: <http://192.168.127.100/moxa-cgi/dynastream.cgi?mode=0>

Item	Value	Description
------	-------	-------------

mode	0 to 999	How long (in seconds) that DynaStream will last once triggered. 0: disable
mode	Alwaysrun	Always enable DynaStream
mode	Forcestop	Disable DynaStream

Get Snapshot CGI URL

The Get Snapshot CGI is used to get a JPEG snapshot from a Moxa VPort.

getsnapshot.cgi

Example:

<http://192.168.127.100/moxa-cgi/getsnapshot.cgi?chindex=2>

Item	Value	Description
chindex	1 to 4	Specify channel index. Default value is 1, if omit this item.

Remove PTZ Driver CGI URL

The Remove PTZ driver CGI is used to remove the customer uploaded PTZ driver.

removeptzdriver.cgi

Example:

<http://192.168.127.100/moxa-cgi/removeptzdriver.cgi?index=6&channel = 1>

Item	Value	Description
channel	1 to 4	Specifies the channel index; the default value is 1, if this item is omitted.
index	1 to 10	Specifies which camera driver is to be removed.

Device Reboot CGI URL

The Reboot CGI is used to reboot the Moxa VPort.

reboot.cgi

Example:

<http://192.168.127.100/moxa-cgi/reboot.cgi>

Firmware Upgrade CGI URL

The firmware upgrade CGI is used to upgrade firmware of Moxa VPort.

uploadfirmwarefile.cgi

Example:

<http://192.168.127.100/moxa-cgi/uploadfirmwarefile.cgi>

Value	Description
multipart/form-data	

Factory Default CGI URL

The factory default CGI is used to recovery the default setting of Moxa VPort.

setfactorydefault.cgi

Example:

<http://192.168.127.100/moxa-cgi/setfactorydefault.cgi>

Value	Description
(optional) soft	if soft = 1 , execute soft default, keep network settings

Get/Clear System Log CGI URL

Below CGI commands are used to get or clear system log of Moxa VPort.

getsystemlog.cgi

clearlog.cgi

Get/Set System Parameters CGI URL

This CGI commands is used to export system configuration to file sys_config.ini

sys_config.cgi

This CGI commands is used to upload system configuration to Moxa VPort
u ploadconfigfile.cgi

Get I/O Status CGI URL

This CGI command is used to get the LED status and information about devices.

getiostatus.cgi**Example:**

```
http://192.168.127.100/moxa-cgi/getiostatus.cgi
```

VPort Reply Parameters:

Information Item	Value	Description
SYS	1: Red 2: Green	Status of STAT LED in device
PWR	0: no power input 1: power input	PWR1: power 1 PWR2: power 2 *depend on number of power inputs on VPort
FAULT	0: OFF 1: ON	Status of Fault LED
PTZ	0: No data transmit 1: data transmit	
VIDEO	0: no video signal 1: video signal detected	Status of video signal
SD	0: no SD card inserted 1: SD card insert	Status of SD insertion
DI	0: non-active 1: active	DI1 to DI# Note: Depends on the number of digital inputs on the VPort.
DO	0: non-active 1: active	DO1 to DO# Note: Depends on the number of relay outputs on the VPort.

System Information CGI URL

The system information CGI command is used to get VPort system information.

systeminfo.cgi**Example:**

```
http://192.168.127.100/moxa-cgi/systeminfo.cgi
```

VPort Reply Parameters:

Information Item	Value	Description
Model	String	Model name
HostName	Max 40 chars	Server name
SerialNumber	String	Serial Number
RTSPPort	1 to 65535	RTSP port number
CameraNumber	1 to N	Camera number
UartNumber	0 to N	Uart number
DINumber	0 to N	DI number
PowerNumber	1 to N	Power Number
DONumber	0 to N	DO number
VideoCodec	MP4V, MJPG, H264	Supported video codec type. (MPEG4, MJPEG, H264)
AudioCodec	PCMU	Supported audio codec type.
FirmwareVersion	xx.yy.zz	Firmware version
MotionDetectionMethod	3	Number of motion detection windows
StreamingSupport	String	All supported codec type by VPort model
StreamingNowCodec	String	Codec type for current configuration
MagicCode	00008001	To identified module type
Deinterlace	0 or 1	Build-in de-interlace processing
ONVIFSupport	0 or 1	0: Unsupported ONVIF 1: Supported ONVIF
MACAddress	Xx:xx:xx:xx:xx:xx	MAC Address