修改日期	修改人	修改內容
2014/11/12	Eric Hung	1. 於 geteventlistbyorder.cgi 裡面, 新增 severity 欄位 2. videoexport.cgi 的 mac 改 channel. 3. getthumbnail.cgi 多一個 utc 的參數

[Remote CGI]

CGI	Src -> Dst	Argument	Output format
AddCamera.xml	EtroCenter -> NVR	None	Refer to #1 on Page3
AddCamera.cgi	EtroCenter -> NVR	None	The output format is the same with AddCamera.xml. Refer to #1 on Page3
AddCameraJ.cgi	EtroCenter -> NVR	None	Refer to #2 on Page4
relate PTZ	EtroCenter -> NVR -> IP camera	This cgi command depends on the ptz specification of IP camera. <ex> : http://<nvr_ip>:<remote_port>/<IP cam MAC>/config/<ptz cmd>	This output format depends on the ptz output from IP camera
getrecordlist.cgi	Playback -> NVR	1. None: output all info 2. MAC=<mac addr> StartTime=<__time64_t>	Refer to #3 on Page5
getthumbnail.cgi	Playback -> NVR	Id=<MAC addr><channel> utc=<__time64_t> <ex>: 1.	A still image is output. (JPEG)

		http://<nvr_ip>:<remote_port>/MAC/config/id=<MAC_addr>01 http://127.0.0.1:8080/00196C600744/config/id=00196C60074401	
geteventlistbyorder.cgi	EtroMobile -> NVR	MAC=<mac addr> StartTime=<__time64_t> EventType=<eventtype>	Refer to #4 on Page6 (As to EventType, please see the note in #4).
geteventlist.cgi	EtroCenter -> NVR	MAC=<mac addr> StartTime=<__time64_t> EventType=<eventtype>	Refer to #5 on Page7. (About EventType, please see the note in #4 on Page6)
videoexport.cgi	Playback -> NVR	channel=<mac addr> Start_Time=<__time64_t> End_Time=<__time64_t>	Refer to #6 on Page8
videoprogress.cgi	Playback -> NVR	None	Refer to #7 on Page9
videodownload.cgi	Playback -> NVR	filename=<text file name>	The output format is an AVI file.
notify_stream.cgi	EtroCenter -> NVR	None	Refer to #8 on Page10

[Output Format]

1. AddCamera.xml/AddCamera.cgi

```xml
<?xml version="1.0" encoding="UTF-8"?>
<AddCameraInfo>
    <CameraInfo TotalCamera="3">
        <camera0 cameraid="814" cameraname="EV8580Q-CD" connect_type_code="Static IP" IPAddress="10.1.21.63" mac_address="00196C600744" user="root" pass="pass" model_name="EV8580Q-CD" ptz_support=":" total_stream="1" stream_url="00196C600744" video_format="196608" camera_group="EtroCenter New Group"/>
        <camera1 cameraid="815" cameraname="SD20XDN2MP-WIP" connect_type_code="DHCP" IPAddress="10.1.21.40" mac_address="00196C607956" user="root" pass="pass" model_name="SD20XDN2MP-WIP" ptz_support="<" total_stream="2" stream_url="00196C607956" video_format="196608" camera_group="EtroCenter New Group"/>
        <camera2 cameraid="816" cameraname="EV8180U-XL" connect_type_code="Static IP" IPAddress="10.1.21.191" mac_address="00196C605F3C" user="root" pass="pass" model_name="EV8180U-XL" ptz_support=":" total_stream="2" stream_url="00196C605F3C" video_format="196608" camera_group="EtroCenter New Group"/>
    </CameraInfo>
    <StreamInfo TotalStream="0" stream_port="554" http_port="8080"/>
</AddCameraInfo>
```

2. AddCameraj.cgi

```
[
   {
     "TotalCamera": 1,
     "camera0": {
        "cameraid": 814, "cameraname": "EV8580Q-CD", "connect_type_code": "Static IP", "IPAddress": "10.1.21.63", "mac_address":
"00196C600744", "user": "root", "pass": "pass", "model_name": "EV8580Q-CD", "ptz_support": ":", "video_format": "196608",
"total_stream": 1, "stream_url": "00196C600744", "camera_group_desc": "EtroCenter New Group" }
   },
   {
     "stream0:": {
        "stream_name": "Stream 1", "cameraid": 814, "stream_port": 554, "stream_protocol": "RTSP", "video_cmpr_type": "H264",
        "video_res": "FULL HD"
     }
   }
]
```

3. getrecordlist.cgi

```
[
    {
        "mac": "00196C010403",
        "CameraName": "Untitled0- 00196C010403",
        "LenType": 0,
        "ProfileID": "1",
        "duration": "1408332481~1408341419;"
    },
    {
        "mac": "00196C012202",
        "CameraName": "Untitled6- 00196C012202",
        "LenType": 0,
        "ProfileID": "1",
        "duration": "1408332483~1408341419;"
    }
]
```

4. geteventlistbyorder.cgi

```
[
  {
    "mac": "00196C607956",
    "CameraName": "SD20XDN2MP-WIP",
    "eventtype": "MD",
    "duration": "1408443747~1408443921",
    "severity":"1"
  },
  {
    "mac": "00196C607956",
    "CameraName": "SD20XDN2MP-WIP",
    "eventtype": "MD",
    "duration": "1408443692~1408443747",
    "severity":"2"
  }
]
```

<note>: The EventType code in argument is enumerated below:

MOTION_DETECTION =0, DIGITAL_INPUT=1, VIDEO_LOST =2, VIDEO_OPEN =3, REBOOT =4, DIGITAL_OUTPUT =5, MISSING_OBJECT = 6, EVENT_TRIGGER =7, TRANSACTION = 8,

DISK_FULL = 64, LOG_IN = 65, LOG_OUT = 66, DISCONNECT = 67, RECORDING_FAIL = 68

desc:

i). From 0~8 is the event that comes from IP camera. From the number after 64 indicates the system event which comes from Etrocenter/NVR itself.

ii). The severity variable has 4 level degree to indicate the severity of event. The number of meaning from 1 to 4 indicates critical, warning, information and system in order.

5. geteventlist.cgi

```
[
    {
        "mac": "00196C600744",
        "CameraName": "EV8580Q-CD",
        "LenType": 0,
        "ProfileID": "1",
        "duration": "1408348249~1408348258;1408349950~1408350113;1408350721~1408350820",
        "EventType": "MD;MD;MD"
    },
    {
        "mac": "00196C605F3C",
        "CameraName": "EV8180U-XL",
        "LenType": 0,
        "ProfileID": "1",
        "duration": "1408338724~1408338734;1408338824~1408339014;1408339125~1408339173",
        "EventType": "DI;DI;DI"
    }
]
```

6. videoexport.cgi

```
[
    {
        "version": "0.2",
        "filelist": [
            "EV8580Q-CD-20140818_155049-20140818_155058.avi"
        ],
        "starttime": "1408348249",
        "endtime": "1408348258",
        "msg": "OK"
    }
]
```

7. videoprogress.cgi

```
[
   {
      "version": "0.2",
      "filelist": [
         {
            "filename": "EV8580Q-CD-20140729_173311-20140730_100757.avi",
            "percent": "100.0%"
         },
         {
            "filename": "EV8580Q-CD-20140729_173311-20140730_100757_1.avi",
            "percent": "100.0%"
         },
         {
            "filename": "EV8580Q-CD-20140818_155049-20140818_155058.avi",
            "percent": "100.0%"
         }
      ],
      "msg": "OK"
   }
]
```

8. notify_stream.cgi
--notifystream

time=1408556037
input1=off
md1=on
md2=off
md3=off
sd=invalid
vsignal1=on
tamper=off
MAC=00196C607956

--notifystream

<note> In remote notify_stream.cgi, the MAC indicates the MAC address of IP camera which reside in NVR and be triggered by certain event.