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1 Scope

This specification defines a HTTP-based application programming interface that enables physical security and video management systems to communicate with IP media devices in a particular way.

With regard to Media Streaming, please refer to —develop API of RTSP protocolll.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

- [1] RFC2616 Hypertext Transfer Protocol-HTTP/1.1
- [2] W3C XML 1.0 specification
- [3] W3C Character encodings
- [4] RFC 2396 Uniform Resource Identifiers (URI): Generic Syntax and Semantics
- [5] RFC 2617 HTTP Authentication:Basic and Digest Access Authentication
- [6] International Electrotechnical Commission —ISO/IEC standard on UPnP device architecture makes networking simple and easy[1], 2008-12-09. Retrieved on 2009-05-07.
- [7] International Organization for Standardization —ISO/IEC standard on UPnP device architecture makes networking simple and easy[1], 2008-12-10. Retrieved on 2009-05-07.
- [8] UPnP Forum —UPnP Specifications Named International Standard for Device Interoperability for IP-based Network Devices[1], 2009-02-05. Retrieved on 2009-05-07.

3 Version update records

Modify Date	Version	Modification
2016/04/22	1.1.9	New,first published
2016/05/31	1.1.10	<ul style="list-style-type: none">1.Add the url relation with alarm.2.Add the url relation with record.3.Add the section “StorageDirectory” of the ftp.4.Add the url “/Streams/ChannelID/ReceiveData”.5.Add the url “/Streams/ChannelID/StreamID/ReceiveData”
2016/10/08	1.1.11	Add the URL “/Network/WifiParamTest”
2016/10/14	1.1.12	<ul style="list-style-type: none">1.Add the url “/Network/WifiParamTestStatus”.2.Add the url “/Network/WhichNetworkCard”.
2016/11/01	1.1.13	<ul style="list-style-type: none">1.Add the url “/Record/Notify/URL”.2.Add the url “/Record/ChannelID/RecordSchedule”
2016/11/08	1.1.14	Add the url “/Pictures/ChannelID/Motion/RegionV2”
2016/11/14	1.1.15	1.Add the url “/Playback/GetRecordInfoByMonth”

		2.Add the url “/Playback/GetRecordInfoByDay” 1.Update the url “/Network/Email”. 2.Update the url “/Network/FTP”. 3.Update the url “/Images/ChannelID/Scene”. 4.Update the url “/Images/ChannelID/Exposure” 5.Update the url “System/NTP”
2016/12/21	1.1.15	
2017/01/09	1.1.17	Add the url “/System/SendTestFTP”
2017/01/17	1.1.18	1.Add the url “System/DeviceWiFiSTA2AP”. 2.Update the url “/System/DeviceWiFiSTA2AP”. 3.Update the url “/Network”. 4.Update the url “Streams/AudioStream”. 5.Update the url “Record”.
2017/02/14	1.1.19	Add the url “/System/FactoryDefaultV2”
2017/04/14	1.1.20	1.Modify the error position. 2.Add the url “/System/DeviceCustomFunction”. 3.Add the url “/Network/P2PV2”.
2017/05/04	1.1.21	1.Updata the url /Record 2.Update the url /Record/ChannelID/RecordSchedule
2017/06/28	1.1.22	1.Add a new field for WPA password encoded by Base64.
2017/07/12	1.1.23	1.Add URL “RTMP/BasicConfig” for RTMP basic configuration. 2.Add URL “/RTMP/ChannelID/StreamID/Config” for RTMP stream configuration. 3.Add RTMP capability filed in URL “/System/DeviceInfo”.
2017/07/27	1.2.0	1.Add h265+ capability and codec setting.
2017/08/04	1.2.1	1.Add the url “/Pictures/ChannelID/Motion/Notify/URL”
2017/08/11	1.3.0	Add h264+ capability and codec setting.
2017/11/10	1.3.1	1.Add the url “/Alarm/AMS” 2.Add the url “Alarm/EventCfgList”
2018/05/04	1.3.2	1. Add the the volume of audio out(/Streams/AudioStream). 2. Add the url “/System/CloudUpgradeServerInfo” 3. Add the url “/System/CloudUpgradeFirmwareList” 4. Add the url ”/System/CloudUpgradeDownloadStart” 5. Add the url ”/System/CloudUpgradeDownloadTerminate” 6. Add the url ”/System/CloudUpgradeDownloadStatus” 7. Add the url ”/System/CloudUpgradeStartUpgrade” 8. Add the url ”/System/CloudUpgradeResult” 9. Add the smart color function(/Images/ChannelID/IrCutFilter). 10. Add the url ”/RecordFileList/Attribute” 11. Add the url ”/RecordFileList/Pages/(Pagenum)” 12. Add the url ”/System/ErrorInfoMap” 13. Add the url ”/System/DeviceCap” 14. Old version only support for sensitivity of highest,higher,lower and lowest,some version support for sensitivity of highest, higher,high, middle,low, lower and lowest(/Pictures/1/Motion). 15. Modified the problem of getting the failure of the MJPEG stream(/Streams/ChannelID/StreamTypeID/ReceiveData). 16. support for half time zone or 1/4(/System/NTP). 17. Add the url ”/SnapshotFileList/Attribute” 18. Add the url ”/SnapshotFileList/Pages/(PageNum)”
2018/05/30	1.3.3	1. add the status “ nodisk,exceptionneedformat,exceptionneedChangeDisk,formatfailedneedreboot ” int the <DiskStorageAttribute> of the url /Disk 2. add the status “ umount failure,device is busy ” int the <DiskFormatStatus> of the url /Disk 3. add the status “ passwd error ” int the

		<Status> of the url /Network/WifiParamTestStatus
2018/07/10	2.0.0	4. Add the url /Snapshot/ChannelID/StreamID/RemoteImageCaptureV2 5. Modify the url /RecordFileList/Pages/PageNum. 6. Modify the url /SnapshotFileList/Pages/PageNum. 1. Add the url "/PTZ/ChannelID/TurnUpLeft" 2. Add the url "/PTZ/ChannelID/TurnUpRight" 3. Add the url "/PTZ/ChannelID/TurnDownLeft" 4. Add the url "/PTZ/ChannelID/TurnDownRight" 5. Add the url "/PTZ/ChannelID/AutoLeftRight"
2019/08/14	2.0.6	1. Add the url "/Network/Interfaces/2/WIFIAccessPointListV2"
2019/10/22	1.4.3	1.Add the url "/FaceGroup/ImagePersonMap" 2.Add the url "/PTZ/ChannelID/HumanTrack/StartHumanTrack" 3.Add the url "/PTZ/ChannelID/HumanTrack/StartHumanTrack"
2019/10/23	1.4.4	1.Add "ePTZControlCodeTrackRunStart" and "ePTZControlCodeTrackRunStop" in ePTZControlCmdCodem(enum) 2.Add field "AI-265" and "AiFace" in HY_DVR_PEOPLE_DETECT(struct)
2019/10/26	1.4.5	1.Add the host filed in "HY_DVR_CLOUD_STORAGE" 2.Add the url "/Network/CloudStorage/BaseConfig" 3.Add the url "/Network/CloudStorage/OpenStatus" 4.Add the url "/Network/CloudStorage/RecordPlan" 5.Add the url "/Network/CloudStorage/BaseStatus" 6.Add the url "/Network/CloudStorage/BusinessInfo" 7.Add the url "/FaceGroup/RemoveImagePersonMap"
2019/11/04	1.4.6	1.Add the url "/Alarm/AlarmOut/ChannelID/ControlMode" 2.Add the url "/Pictures/ChannelID/LightFillingMode" 3.Add the url "/FaceGroup/ChannelID/FaceBrightness" 4.Add the url "/Alarm/AlarmAction/AlarmID/LightWarning"
2019/11/14	1.4.7	1.Add the url "/Alarm/AlarmAction/ChannelID/LightWarningByCurrentConfig"
2019/11/22	1.4.8	1.Add the url "/PTZ/ChannelID>Status"
2019/11/27	1.4.9	1.Add the url "/Face/ChannelID/DefaultFaceRegionInfo"
2019/12/03	1.5.0	1.Add the url "/Common/DeviceFileDownload" 2.Add the url "/Common/DeviceFileUpload"
2019/12/04	1.5.1	1.Add field "nVarInfraredWorkMode","nVarInfraredBrightness" in ZW_IPC_ISP_EX
2019/12/11	1.5.2	1.The url "/Images/channelID/IrCutFilter" get xml add two field "InitiveSwitchTime","PassivitySwitchTime" 2.return the sensitivity info in any mode
2019/12/19	1.5.3	1.Add "HKPort" in the return xml of url "/Network/Port"
2019/12/24	1.5.4	1.fix the problem that the cloud storage plan can not set correctly. 2."/Network/CloudStorage/BaseStatus" Get xml add "ErrorCode" field.

4 Definitions and abbreviations

4.1 Definitions

For the purposes of the present document, the following terms and definitions apply:

Services: a set of resources consisting of relevant General Resources.

General Resources: physical resources that supported by the devices.

Node: Services and General Resources.

4.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

REST REpresentational State Transfer

UPnP Universal Plug and Play

5 Architecture and Transmission Mechanism

The IP Media Device Management Protocol is based on REST architecture. The management and control interfaces defined in this specification are treated as resources utilizing the REpresentational State Transfer (REST) architecture. This architecture facilitates users by grouping related resources within hierarchical namespaces, and is more flexible for service discovery and future expansion.

REST architecture consists of clients and servers, among which clients initiate request to servers, while servers handle requests and response accordingly. Requests and responses are established via the transmission of —representations|| of —resources||. REST architecture need to be based on an Application Layer protocol which provides various of standard communication formats for applications based on the transfer of meaningful representational state. HTTP[1] has a very rich vocabulary in terms of verbs(or —methods||),URIs, request and response headers, Internet media types, HTTP request and response codes etc. In addition, HTTP also has some features particularly suitable for REST architecture. So HTTP is used as external Application Layer protocol in this specification. In the architecture, clients are physical security and video management systems; servers are IP media devices.

This specification also contains full XML schema for the introduced resources.

5.1 REST and HTTP Methods

The following table shows how HTTP verbs are typically used to implement a web service based on REST architecture.

Resourc	GET	PUT	POST	DELETE
---------	-----	-----	------	--------

Collection URI, such as http://webServer/resources	List the members of collection, complete with their member URIs for further navigation.	Meaning defined as — replace the entire collection with another collection .	Create a new entry in the collection where the ID is assigned automatically by the collection. The ID created is usually included as part of the data returned by this	Meaning defined as — delete the entire collection .
Member URI, such as http://webServer/resources/7416	Retrieve a representation of the addressed member of the collection expressed in an appropriate MIME type.	Update the addressed member of the collection or create it with the specified ID.	Treat the addressed member as a collection in its own right and create a new subordinate of it.	Delete the addressed member of the collection.

5.2 XML

A device must support the syntax defined by W3C XML 1.0 specification [2] and UTF-8 character set [3]. All XML files must adopt UTF-8 encoding according to RFC3629. Additionally, all resources share a common XML schema as defined in Annex.

Any resources can specify separate input and output XML Documents. If a specific data structure is defined inside these documents, then they must be specified as XML Schema Documents (xsd) in Annex.

Lists contained in XML blocks will be represented in the format of <XXXList>, and each <XXXList> tag may contain one or more nodes.

5.3 Resources overview

Services	Description	Reference
Network	Configure network interfaces.	8.1
System	Configure and operate the general system functions.	8.2
Streams	Handle video-related configuration.	8.3
Images	Configure the general Images configuration	8.4
Pictures	Configure the general pictures configuration	8.5

5.4 Protocol URL

The URL scheme is used to locate device resources via a specific protocol in the network.

This section defines the syntax and semantics for http(s) URLs.

protocol: URL scheme for the particular request. The http and https protocols are allowed in this specification.

host: The host field refer to the hostname, IP address, or the FQDN of an IP device.

port: The port field refer to the port number of that host on which the identified resource is located at the IP device listening for TCP connections. If the port is empty or not given, the default port is assumed. For HTTP, the default port 80. For HTTPS, the default port 443.

abs_path: The Request-URI [1] for the resources is abs_path [4]. The abs_path in this specification is most often of the form —[Services][/General Resources][/Special Resources]—/ID, which is suitable for resources to update or restore device configurations. —/ID which appears in the abs_path identifies one resource of a list resource in this specification.

query: The query field is a string of information to be interpreted by the resource. It can include some resource-related parameters. It must be listed in name-value pair syntax (p1=v1&p2=v2&...&pn=vn). Each resource can define a set of parameters. Defining input data which is specific to the resource will be prior than query usage.

5.5 Messages

HTTP messages are used for communication between physical security and video management systems and IP media devices in this specification. In order to configure and control the device, some provisions are specified for these HTTP message.

5.5.1 Connection Header Field

Devices that implement HTTP/1.1 should support persistent connections in order to meet video management systems or client applications' requirements that issue multiple HTTP(s) transactions. HTTP/1.1 is implemented and utilized according to RFC 2616 in the IP devices. For a video management system or client application that uses persistent connection for multiple transactions, it is required to implement —Connection: Keep-Alive HTTP header field, while also adopt the —Connection: close HTTP header field for the last transaction of the persistent connection. This process will assume that the application can identify the last request in a sequence of multiple requests.

5.5.2 Authorization and WWW-Authenticate Header

Fields

When a video management system or client application sends any request to the device, it must be authenticated by means of Basic Access [5] according to RFC 2617, and thus all the devices are required to support Basic Access. Authorization header field is sent along with each request, and if a user is authenticated, the request will follow the normal execution flow. If client HTTP request is with no authentication credentials,

unauthorized HTTP response (401) will be returned with WWW-Authenticate header field.

5.5.3 Entity Body

The Content-Type entity-header field indicates the media type of the entity body. The Content-Type may be designated as —application/xml; charset='UTF-8'||,
—application/octet-stream||, etc.
For configuration information, the Content-Type is usually—application/xml;
charset='UTF-8'||. For example,

HTTP Request Message

```
GET /System/status HTTP/1.1  
...  
...
```

HTTP Response Message

```
HTTP/1.1 200 OK  
...  
Content-Type: application/xml; charset=||UTF-8||  
...
```

HTTP Request Message

```
PUT /System/configurationData HTTP/1.1  
...  
Content-Type: application/octet-stream  
...  
[proprietary configuration file data content ]
```

HTTP Response Message

```
HTTP/1.1 200 OK  
...  
Content-Type: application/xml; charset=||UTF-8||  
...  
<?xml version="||1.0|| encoding="||UTF-8||"?>  
<ResponseStatus>  
...  
</ResponseStatus>
```

5.5.4 Operations

Different resources will specify different operation.

- The set device configuration resources use PUT operation. If there is an XML block parameter for the request, the inbound XML format is defined according to a resource-special XML schema. Request status will be returned by the XML response information of the device, and can be used for indicating the PUT operation status. The responded XML format is defined by —XML Response Schema (please refer to section 4.5.5 for detail description). After the device configuration is updated successfully, it will return an XML response with status code —OK; while another status code will be used for indicating unsuccessful operations. In either case, the device only responses after it is ready to continue normal operation, i.e. accepting streaming request, receiving configuration commands, etc.
- The get device configuration resources use GET operation. After a successful GET operation, the result will be returned in XML format according to the resource description. For an unsuccessful request (i.e. users is not authenticated), the result will be returned in XML format according to —XML Response Schema.
- Resources to create device configurations information will use the POST operation. If there is an XML block parameter for the request, the inbound XML format is defined according to a resource-special XML schema. The request status will be indicated by the XML response information returned from the device, and can be used to indicate the status of the POST operation. This XML format is defined according to —XML Response Schema (see section 4.5.5 for details). After successfully creating the data, the device returns an XML response with status code —OK. A separate status code is used for unsuccessful operations.
- Resources to delete device configurations information will use the Delete operation. If successful, the result will be returned an XML response with status code —OK. A separate status code is used for unsuccessful operations. This XML format is defined according to —XML Response Schema (see section 4.5.5 for details).
- Data uploading resources (i.e. firmware upgrade, import configuration, etc.) will use PUT operation. The content of the data will be stored in the body of the HTTP request. If successful, the result will be returned an XML response with status code —OK. A separate status code is used for unsuccessful operations. This XML format is defined according to —XML Response Schema (see section 4.5.5 for details).
- Data receiving resources (i.e. export configuration file) use GET operation. If successful, the result will be returned the data according to the resource description. An XML block is used for unsuccessful operations. This XML format is defined according to —XML Response Schema (see section 4.5.5 for details).
- For Special Resources, GET operation will be used. For more detailed description see Section 6.

If there is an XML block for the HTTP request or response, the Content-Type and Content-Length will be set in the headers of the HTTP message.

6 Device discovery

The IP devices support Universal Plug and Play (UPnP) technology to discovery/locate themselves. A UPnP compatible device will automatically announce its network address, supported devices and services types when connected to a network, and therefore becoming —plug-and-play— by allowing clients to recognize those information and begin using this device immediately. If you want to get more information about upnp, please refer to 《Discovery version 1.0.0.docx》

7 Resource Description

7.1.1 Resource Description Outline

Each resource in this specification is defined using the following format.

Resource_URI	Type Version
Operation_Name	User Lever
Description	<i>Description of the operation.</i>
Query	<i>Indicates the name/value pairs (p1, p2, p3,...,pn) for the resource.</i>
Inbound Data	<i>Indicates inbound data for the resources.</i>
Success Return	<i>the Type (if present) and the name of XML Data Block</i>
Notes: describes any special processing rules for the resource.	

Type refers to —Special Resourcell, —Servicell and —General Resourcell.

Version is used to determine the version of the protocol. The version number shall be set to —1.0 in this specification.

Operation_Name refers to —GET[], —PUT[], —POST[] and —DELETE[].

Inbound Data includes three types as follows:

- NONE –no input data
- DataBlock – the name of an XML Data Block. Datablocks used here must be defined according to the specification.
- Mime type – mime type for the input data in the HTTP payload.
Remark:—application/xml is not a valid mime type.

If a device does not support particular XML tags or blocks, then it may not be supported by the resource operations.

Generally, if a field is not provided in the inbound XML, then its current values shall not be

modified in the device's repository.

If a required field did not exist in the device's repository, then it must be provided in the applicable resource operations.

Success Return and Error Return detailed description see Section 8.

7.1.2 Annotation

The XML Data Blocks described in this document contains annotations for the field's properties. Please refer to the XML schema definitions for detail description.

The Following annotation content is inserted into the comments to describe the data carried in the field.

Table 6

Annotation	Description
req	Required field.
opt	Optional field. For data uploaded to the device, if the field is present but the device does not support it, it should be ignored.
dep	This field is required depending on the value of another field.
ro	Read-only. For XML data that is both read and written to the device, this field is only present in XML returned from the device. If this field is present in XML uploaded to the device, it should be ignored.
wo	Write-only. This field is only present in XML that can be uploaded to the device. This field should never be present in data returned from the device. [This is used for uploading passwords].
xs:<type>	A type defined in XML Schema Part 2: Datatypes Second Edition, see http://www.w3.org/TR/xmlschema-2

Remark: optional XML structures may contain required fields for the operation, which mean that even if the entire XML block is optional, some of its contained fields may still be necessary if required.

8 Error Handling

As with any other protocol, errors may occur during communications, protocol or message processing, and the specification classifies error handling into categories below:

- Protocol Errors, which are result of an incorrectly formed protocol message. Protocol Errors may contain header value or be received in an not expected or experience a socket timeout. To indicate and interpret protocol error, HTTP

protocol has defined a set of standard status codes [e.g., 1xx, 2xx, 3xx, 4xx, 5xx]. According to this specification, the IP devices will use appropriate HTTP protocol defined status codes for error reporting and when received handle accordingly.

- Application Errors, which are generated as a result of REST operations errors. All such application errors must be reported and handled through HTTP messages. The following table indicates the mapping relationship between HTTP status codes and REST operations, and also the information contained in response header and bodies.

HTTP Status Codes	REST Meaning	GET	PUT	POST	DELETE
200	<p>—OK—The request has succeeded.</p> <p>Header Notes: None</p> <p>Body Notes: The requested resource will be returned in the body.</p>	√	√		√
201	<p>—Created— The request has created a new resource.</p> <p>Header Notes: The Location header contains the URI of the newly created resource.</p> <p>Body Notes: The response returns an entity describing the newly created resource.</p>		√	√	
204	<p>—No Content— The request succeeded, but there is no data to return.</p> <p>Header Notes: None</p> <p>Body Notes: No body is allowed.</p>		√		√
301	<p>—Moved Permanently— The requested resource has moved permanently.</p> <p>Header Notes: The Location Header contains the URI of the new location.</p> <p>Body Notes: The body may contain the new resource</p>	√			

302	—Found!! – The requested resource should be accessed through this location, but the resource actually lives at another location. This is typically used to set up an alias.	√			
HTTP Status Codes	REST Meaning	GET	PUT	POST	DELETE
	Header Notes: The Location header contains the URI of the resource. Body Notes: The body may contain the new resource				
	—Bad Request!! – The request was badly formed. This is commonly used for creating or updating a resource, but the data was incomplete or incorrect. Header Notes: The				
	—Unauthorized!! – The request requires user authentication to access this resource. If the request contains invalid authentication data, this code is sent.				
403	—Forbidden!! – The request is not allowed because the server is refusing to fill the request. A header suggests to the client when to try resubmitting the	√	√	√	√

When setting the configuration, it will return a XML with an error code. Such as:

ResponseStatus XML Block

```
<?xml version="1.0" encoding="UTF-8" ?>
<ResponseStatus Version="1.0" xmlns="http://www.zwcloud.wang/ver10/XMLSchema">
    <requestURL>/Network/Interfaces/2</requestURL>
    <statusCode>0</statusCode>
</ResponseStatus>
```

<requestURL> indicates URI operation.

<statusCode> represents the return value by the device.

Status Code	Description
0	Success
-1	Decode error,maybe the XML and URL do not correspond.
-2	Decode error, maybe the XML missing fields with <req> tag.
-3	Unsupported operation
-4	Decode error, maybe it is associated with the channel
-5	Parameter error
-6	Query log busy
-7	Query log error
-8	call SDK fails
-9	Memory overflow
-10	URL Error
-11	User OverFlow
-12	Invalid Operate
-13	User Is Exist
4097	Picture format is wrong
4098	Face does not exist in the picture
4099	There are multiple faces in the picture
4100	The face attribute in the picture is illegal
4101	Face recognition algorithm is not initialized
4102	Failed to create face group
4103	Algorithm eigenvalue versions do not match
4104	The stored face bank group does not exist
4105	The number of face banks reaches the upper limit
4106	The face pixels in the picture are too large. The maximum face pixels in the picture cannot exceed 300x300
4107	The face in the picture is too blurred
4108	The angle of the face in the picture is too large
4109	Face pixels in the picture are too small
4110	Face detection failed, please try another picture and try again
4111	Person picture already exists
4196	Face library name already exists
4197	Person's name already exists
4198	The total number of face banks reached the upper limit
4199	The total number of personnel reaches the upper limit
4200	Person uniqueId already exists
4201	PersonId and uniqueId are invalid
4202	PersonId and uniqueId do not match
4203	FaceBank Group GroupId is invalid
4204	Invalid personId
4205	Person uniqueId is invalid

NOTE: For the upgrade, when the return value is greater than zero, indicating that the upgrade fails.

9 Services and General Resources

9.1 /Network

/Network		General Resource v1.0
GET		Viewer
Description		It is used to get the device network configuration
Query		None
Inbound Data		None
Success Return		Network
PUT		Viewer
Description		It is used to set the device network configuration
Query		None
Inbound Data		Network
Success Return		ResponseStatus
Notes: Please do not frequently set the network configuration, because the equipment end of the set the network configuration is asynchronous responses, so if you frequently set, only the response to the first operation, the recommended time interval set 3-5s.		

Network XML Block

```
<Network version = "1.0" xmlns = "">
    <PPPOE>  <!-- opt -->
    <DDNS>   <!-- opt-->
    <UPNP>   <!-- opt -->
    <EMail>   <!-- opt-->
    <Port>    <!-- opt-->
    <P2P>    <!-- opt-->
    <Interfaces><!--opt-->
</Network>
```

9.1.1 /Network/PPPOE

/Network/PPPOE		General Resource v1.0
GET		Viewer
Description		It is used to get all of the device PPPOE configuration
Query		None
Inbound Data		None
Success Return		PPPOE
PUT		Viewer
Description		It is used to set all of the device PPPOE configuration
Query		None

Inbound Data	PPPOE
Success Return	ResponseStatus
Notes:	
Please do not frequently set the network configuration, because the equipment end of the set the network configuration is asynchronous responses, so if you frequently set, only the response to the first operation, the recommended time interval set 3-5s.	

PPPOE XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<PPPOE>
    <Config/> <!-- req -->
    <Status /><!--opt-->
</PPPOE>
```

9.1.1.1/Network/PPPOE/Config

/Network/PPPOE/Config	General Resource v1.0
GET	Viewer
Description	It is used to get the readable and writable configuration of the device PPPOE
Query	None
Inbound Data	None
Success Return	Config
PUT	Viewer
Description	It is used to set the readable and writable configuration of the device PPPOE
Query	None
Inbound Data	Config
Success Return	ResponseStatus
Notes:	
Please do not frequently set the network configuration, because the equipment end of the set the network configuration is asynchronous responses, so if you frequently set, only the response to the first operation, the recommended time interval set 3-5s.	
When it is retrieved the <Config> XML, <Password> field is not displayed ,but if there is not <Password> in the configuration settings, the password is not change, Otherwise, the password will be changed.	

PPPOE configuration XML Block

```

<?xml version="1.0" encoding="utf-8"?>
<Config>
    <Enable><!--req,xs:boolean--></Enable>
    <UserName><!--req,xs:string--></UserName>
    <Password><!--wo,opt,xs:string--></Password>
</Config>

```

9.1.1.2 /Network/PPPOE/Status

/Network/PPPOE/Status		General Resource v1.0
GET	Viewer	
Description	It is used to get the read-only configuration of the device PPPOE	
Query	None	
Inbound Data	None	
Success Return	Status	
Notes:		
Please do not frequently set the network configuration, because the equipment end of the set the network configuration is asynchronous responses, so if you frequently set, only the response to the first operation, the recommended time interval set 3-5s.		
When <State> is the value of "connected" , <IPAddress>, <SubnetMask> and <Gateway> will be valid..		

PPPOE Status XML Block

```

<?xml version="1.0" encoding="utf-8"?>
<Status>
    <State><!--ro,req,xs:string,connecting,connected,disconnected,disconnecting--></State>
    <IPAddress><!--ro,req,xs:string--></IPAddress>
    <SubnetMask>
        <!-- ro,req, xs:string, subnet mask for IPv4 address -->
    </SubnetMask>
    <Gateway><!--ro,req,xs:string--></Gateway>
</Status>

```

9.1.2 /Network/DDNS

/Network/DDNS		General Resource v1.0
GET	Viewer	
Description	It is used to get all of the device DDNS configuration	

Query	None
Inbound Data	None
Success Return	DDNS
PUT	Viewer
Description	It is used to set all of the device DDNS configuration
Query	None
Inbound Data	DDNS
Success Return	ResponseStatus
Notes:	<p>Please do not frequently set the network configuration, because the equipment end of the set the network configuration is asynchronous responses, so if you frequently set, only the response to the first operation, the recommended time interval set 3-5s.</p>

DDNS XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<DDNS>
    <ServerList/><!-- opt -->
    <Config/><!--req-->
    <Status/><!--opt-->
</DDNS>
```

9.1.2.1/Network/DDNS/ServerList

/Network/DDNS/ServerList	General Resource v1.0
GET	Viewer
Description	It is used to get the read-only Server List of the device DDNS
Query	None
Inbound Data	None
Success Return	ServerList
Notes:	<p>Please do not frequently set the network configuration, because the equipment end of the set the network configuration is asynchronous responses, so if you frequently set, only the response to the first operation, the recommended time interval set 3-5s.</p>

ServerList XML Block

```
<?xml version="1.0" encoding="utf-8"?>
< ServerList>
    <Server><!--opt-->
        <ServerName><!--req,xs:string--></ServerName>
    </Server>
```

```
</ ServerList>
```

9.1.2.2/Network/DDNS/Config

/Network/DDNS/Config		General Resource v1.0
GET		Viewer
Description	It is used to get the readable and writable configuration of the device DDNS	
Query	None	
Inbound Data	None	
Success Return	Config	
PUT		Viewer
Description	It is used to Set the readable and writable configuration of the device DDNS	
Query	None	
Inbound Data	Config	
Success Return	ResponseStatus	
Notes:		
Please do not frequently set the network configuration, because the equipment end of the set the network configuration is asynchronous responses, so if you frequently set, only the response to the first operation, the recommended time interval set 3-5s.		
When it is retrieved the <Config> XML, <Password> field is not displayed ,but if there is not <Password> in the configuration settings, the password is not change, Otherwise, the password will be changed.		
When setting <ProtocolName> field, we must ensure that the value of the field is obtained in the protocol list, otherwise you will set up unsuccessful, and no error message.		
Only in <Enable> is true, the other is set to be effective.		
<ServerPort> field temporarily does not support setting, the default value is 0.		

DDNS Config XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<Config>
    <Enable><!--req, xs:boolean--></Enable>
    <ProtocolName>
        <!--req, xs:string, "the string is the one of <ServerList>"-->
    </ProtocolName>
    <ServerPort><!--req, xs:integer--></ServerPort>
    <DomainName><!--req, xs:string--></DomainName>
    <UserName><!--req, xs:string--></UserName>
    <Password><!--wo, req, xs:string--></Password>
    <RefreshIntervals><!--req, xs:integer, in sec--></RefreshIntervals>
</Config>
```

9.1.2.3/Network/DDNS/Status

/Network/DDNS/ Status		General Resource v1.0
GET		Viewer
Description		It is used to get the read-only configuration of the device DDNS
Query		None
Inbound Data		None
Success Return		Status
Notes:		
Please do not frequently set the network configuration, because the equipment end of the set the network configuration is asynchronous responses, so if you frequently set, only the response to the first operation, the recommended time interval set 3-5s.		

DDNS Status XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<Status>
    <State>
        <!--ro,req,xs:string, "stopped,Registering ,Registered ,stopping"-->
    </State>
</Status>
```

9.1.3 /Network/UPNP

/Network/UPNP		General Resource v1.0
GET		Viewer
Description		It is used to get all of the device UPNP configuration
Query		None
Inbound Data		None
Success Return		UPNP
PUT		
Description		It is used to set all of the device UPNP configuration
Query		None
Inbound Data		UPNP
Success Return		ResponseStatus
Notes:		
Please do not frequently set the network configuration, because the equipment end of the set the		

network configuration is asynchronous responses, so if you frequently set, only the response to the first operation, the recommended time interval set 3-5s.

UPNP XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<UPNP>
    <Config/><!--req-->
    <Status/><!--opt-->
</UPNP>
```

9.1.3.1/Network/UPNP/Config

/Network/UPNP/Config		General Resource v1.0
GET		Viewer
Description	It is used to get the readable and writable configuration of the device UPNP	
Query	None	
Inbound Data	None	
Success Return	Config	
PUT		Viewer
Description	It is used to set the readable and writable configuration of the device UPNP	
Query	None	
Inbound Data	Config	
Success Return	ResponseStatus	
Notes:		
Please do not frequently set the network configuration, because the equipment end of the set the network configuration is asynchronous responses, so if you frequently set, only the response to the first operation, the recommended time interval set 3-5s.		

UPNP Config XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<Config>
    <Enable><!--req, xs:boolean--></Enable>
    <WanIPAddress><!--req, xs:string--></WanIPAddress>
    <LocalHTTPPort><!--req, xs:integer--></LocalHTTPPort>
    <ExportHTTPPort><!--req, xs:integer--></ExportHTTPPort>
    <LocalMobilePort><!--req, xs:integer--></LocalMobilePort>
    <ExportMobilePort><!--req, xs:integer--></ExportMobilePort>
    <LocalCommandPort><!--req, xs:integer--></LocalCommandPort>
    <ExportCommandPort><!--req, xs:integer--></ExportCommandPort>
    <LocalMediaPort><!--req, xs:integer--></LocalMediaPort>
```

```

<ExportMediaPort><!--req, xs:integer--></ExportMediaPort>
</Config>

```

9.1.3.2 /Network/UPNP/Status

/Network/UPNP/Status		General Resource v1.0		
GET	Viewer			
Description	It is used to get the read-only configuration of the device UPNP			
Query	None			
Inbound Data	None			
Success Return	Status			
Notes:				
Please do not frequently set the network configuration, because the equipment end of the set the network configuration is asynchronous responses, so if you frequently set, only the response to the first operation, the recommended time interval set 3-5s.				

UPNP Status XML Block

```

<?xml version="1.0" encoding="utf-8"?>
<Status>
    <HTTPPortState><!--ro,req,xs:string,"success,failed,mapping"--></HTTPPortState>
    <MobilePortState><!--ro,req,xs:string,"success,failed,mapping"--></HTTPMobileState>
    <CommandPortState><!--ro,req,xs:string,"success,failed,mapping"--></CommandPortState>
    <MediaPortState><!--ro,req,xs:string,"success,failed,mapping"--></MediaPortState>
</Status>

```

9.1.4 /Network/Email

/Network/Email		General Resource v1.0
GET	Viewer	
Description	It is used to get all of the device Email configuration	
Query	None	
Inbound Data	None	
Success Return	EMail	
PUT	Viewer	
Description	It is used to set all of the device Email configuration	
Query	None	
Inbound Data	EMail	

EMail XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<EMail>
  <Enable><!--req, xs:boolean--></Enable>
  <SMTPServer><!--req, xs:string--></SMTPServer>
  <SMTPPort><!--req, xs:integer--></SMTPPort>
  <SMTPAuthMethod><!--req, xs:string, None, Login--></SMTPAuthMethod>
  <SMTPTLSConfig><!--req-->
    <SMTPTLS><!--req, xs:string, "off(NONE),on(SSL),TLS,STARTTLS"--></SMTPTLS>
  </SMTPTLSConfig>
  <SenderEmailAddress><!--req, xs:string--></ SenderEmailAddress>
  <SenderEmailPassword><!--opt, xs:string--></ SenderEmailPassword>
  <ReceiverList><!--req-->
    <Receiver><!--opt-->
      <ID><!--req, xs:integer--></ID>
      <EmailAddress><!--req, xs:string--></EmailAddress>
    </Receiver>
  </ReceiverList>
  <AttachedSnapshot><!--req, xs:boolean--></AttachedSnapshot>
  <RefreshIntervals><!--req, xs:integer, in sec--></RefreshIntervals>
  <Topic><!--opt, xs:string--></Topic>
  <Message><!--opt, xs:string--></Message>
  <Schedule><!--opt-->
    <AllDay><req, xs:boolean></AllDay>
    <TimeBlockList>
      <TimeBlock_0><!--req, xs:string--></TimeBlock_0>
```

```

<TimeBlock_1><!req,xs:string></TimeBlock_1>
<TimeBlock_2><!req,xs:string></TimeBlock_2>
<TimeBlock_3><!req,xs:string></TimeBlock_3>
<TimeBlock_4><!req,xs:string></TimeBlock_4>
<TimeBlock_5><!req,xs:string></TimeBlock_5>
<TimeBlock_6><!req,xs:string></TimeBlock_6>

<TimeBlockList>
</Schedule>
</EMail>

```

9.1.5 /Network/Port

/Network/Port		General Resource v1.0
GET		Viewer
Description	It is used to get all of the device Port configuration	
Query	None	
Inbound Data	None	
Success Return	Port	
PUT		Viewer
Description	It is used to set all of the device Port configuration	
Query	None	
Inbound Data	Port	
Success Return	ResponseStatus	
Notes:		
Please do not frequently set the network configuration, because the equipment end of the set the network configuration is asynchronous responses, so if you frequently set, only the response to the first operation, the recommended time interval set 3-5s.		
If you set the this configuration , the device will be restart.		

Port XML Block

```

<?xml version="1.0" encoding="utf-8"?>
<Port>
    <HTTP><!--req,xs:integer--></HTTPPort>
    <Command><!--req,xs:integer--></CommandPort>
    <Media><!--req,xs:integer--></MediaPort>
    <Mobile><!--req,xs:integer--></MobilePort>
    <RTP><!--req,xs:integer--></RtpPort>
    <Discovery><!--req,xs:integer--></Discovery>
</Port>

```

9.1.6 /Network/P2P

/Network/P2P		General Resource v1.0
GET		Viewer
Description		It is used to get all of the device P2P configuration
Query		None
Inbound Data		None
Success Return		P2P
PUT		Viewer
Description		It is used to set all of the device P2P configuration
Query		None
Inbound Data		P2P
Success Return		ResponseStatus
Notes:		
Please do not frequently set the network configuration, because the equipment end of the set the network configuration is asynchronous responses, so if you frequently set, only the response to the first operation, the recommended time interval set 3-5s.		
After setting the UUID ,IPC will automatically restart, UID will take effect after the restart.		

P2P XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<P2P>
    <Enable><!--req, xs:boolean--></Enable>
    <UUID><!--req, xs:string--></UUID>
    <Status><!--ro, opt, xs:string, "offline,internet-ready,intranet-ready" --></Status>
</P2P>
```

9.1.7 /Network/P2PV2

/Network/P2PV2		General Resource v1.0
GET		Viewer
Description		It is used to get all of the device P2P List configuration
Query		None
Inbound Data		None
Success Return		P2PList
PUT		Viewer
Description		It is used to set all of the device P2P configuration
Query		None

Inbound Data	P2P
Success Return	ResponseStatus
Notes:	
<p>Please do not frequently set the network configuration, because the equipment end of the set the network configuration is asynchronous responses, so if you frequently set, only the response to the first operation, the recommended time interval set 3-5s.</p> <p>After setting the UUID ,IPC will automatically restart, UID will take effect after the restart.</p>	

P2P XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<P2PList>
    <ID><!--req,xs:integer--></ID>
    <Enable><!--req,xs:boolean--></Enable>
    <P2PProtocolName><!--req,xs:string--></P2PProtocolName>
    <UUID><!--req,xs:string--></UUID>
    <AndroidAppDownload><!--req,xs:string--></AndroidAppDownload>
    <IphoneAppDownload><!--req,xs:string--></IphoneAppDownload>
    <Status><!--ro,opt,xs:string,"offline,internet-ready,intranet-ready"--></Status>
</P2PList>
```

9.1.8 /Network/FTP

/Network/FTP	General Resource v1.0
GET	Viewer
Description	It is used to get all of the device FTP configuration
Query	None
Inbound Data	None
Success Return	FTP
PUT	Viewer
Description	It is used to set all of the device FTP configuration
Query	None
Inbound Data	FTP
Success Return	ResponseStatus
Notes:	
<p>Please do not frequently set the network configuration, because the equipment end of the set the network configuration is asynchronous responses, so if you frequently set, only the response to the first operation, the recommended time interval set 3-5s.</p> <p><TransferContentTypeMask> is a mask,like "00",every bit represent a option,if the value of the bit is "0",It is represent that it is selected,otherwise,not selected,default,From right to left, the first bit is "Image",the second bit is "video".</p>	

When it is retrieved the <FTP> XML, <Password> field is not displayed ,but if there is not <Password> in the configuration settings, the password is not change, Otherwise, the password will be changed.

FTP XML Block

```
<?xml version="1.0" encoding="UTF-8" ?>
<FTP Version="1.0" xmlns="http://www.zwcloud.wang/ver10/XMLSchema">
    <Enable><!--req,xs:boolean--></Enable>
    <UserName><!--req,xs:string--></UserName>
    <Password><!--wo,opt,xs:string--></Password>
    <IPAddress><!--req,xs:string--></IPAddress>
    <Port><!--req,xs:integer--></Port>
    <TransferContentTypeMask><!--req,xs:string--></TransferContentTypeMask>
    <FTPMode><!--req,xs:string,"Active, Passive"--></FTPMode>
    <StorageDirectory><!--req,xs:string--></StorageDirectory>
    <Status><!--opt,xs:string,"not connect","connected"--></Status>
</FTP>
```

9.1.9 /Network/WifiParamTest

/Network/WifiParamTest		General Resource v1.0
PUT		Viewer
Description	It is used to set all of the device ConnectionConfig configuration	
Query		
Inbound Data	ConnectionConfig	
Success Return	ResponseStatus	
Notes:		

ConnectionConfig XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<ConnectionConfig><!--opt-->
    <SSID><!--req,xs:string--></SSID>
    <MACAddress><!--ro,req,xs:string--></MACAddress>
    <NetworkType><!--req,xs:string,managed,Ad-hoc--></NetworkType>
    <AuthMode><!--req,xs:string,OPEN,SHRED,WEPAUTO,WPAESK,WPA2PSK,
    WPANONE,WPA,WPA2,NOPASSWORD--></AuthMode>
    <WEP><!--dep,depends on <AuthMode>-->
        <KeyID><!--req,xs:integer,"1-4"--></KeyID>
        <keyList>
            <Key>
```

```

<ID><!--req, xs:integer--></ID>
<KeyType><!--req, xs:string, "HEX, ASCII"--></KeyType>
<KeyValue><!--opt, xs:string--></KeyValue>
</Key>
</keyList>
</WEP>
<WPA><!--dep, depends on <AuthMode>-->
<EncryptType><!--req, xs:string, NONE, WEP, TKIP, AES--></EncryptType>
<Key>
<KeyType><!--req, xs:string, "ASCII"--></KeyType>
<KeyValueBase64><!--req, xs:string, "the length of the source string is 8-31, and this value will be codec by base64"--></KeyValueBase64>
</key>
</WPA>
</ConnectionConfig>

```

9.1.10 /Network/WifiParamTestStatus

/Network/WifiParamTestStatus		General Resource v1.0
GET		Viewer
Description	It is used to get all of the device WIFIStatusForTest configuration	
Query	None	
Inbound Data	None	
Success Return	WIFIStatusForTest	
Notes:		

WIFIStatusForTest XML Block

```

<?xml version="1.0" encoding="UTF-8" ?>
<WIFIStatusForTest Version="1.0">
    <Status><!--req, xs:string, "disconnect,connected,passwd error"--></Status>
</WIFIStatusForTest>

```

9.1.11 /Network/WhichNetworkCard

/Network/WhichNetworkCard		General Resource v1.0
GET		Viewer
Description	It is used to get all of the device WhichNetcard	

	configuration
Query	None
Inbound Data	None
Success Return	WhichNetcard
Notes:	

WhichNetcard XML Block

```
<?xml version="1.0" encoding="UTF-8" ?>
<WhichNetcard Version="1.0">
    <NetcardType><!--xs:string,"Unknown,wired1,wired2,WIFI,3G,4G,5G"--></NetcardType>
</WhichNetcard>
```

9.1.12 /Network/Interfaces

/Network/Interfaces		General Resource v1.0
GET		Viewer
Description		It is used to get all of the device Interfaces configuration
Query		None
Inbound Data		None
Success Return		InterfaceList
PUT		Viewer
Description		It is used to set all of the device Interfaces configuration
Query		None
Inbound Data		InterfaceList
Success Return		ResponseStatus
Notes:		
Please do not frequently set the network configuration, because the equipment end of the set the network configuration is asynchronous responses, so if you frequently set, only the response to the first operation, the recommended time interval set 3-5s.		

Network interface XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<InterfaceList>
    <Interface><!--opt-->
</InterfaceList>
```

9.1.12.1 /Network/Interfaces/NetworkCardID

/Network/Interfaces/NetworkCardID		General Resource v1.0
GET		Viewer
Description		It is used to get one of the device Interfaces configuration by the NetworkCardID.
Query		None
Inbound Data		None
Success Return		
PUT		Viewer
Description		It is used to set one of the device Interfaces configuration by the NetworkCardID.
Query		None
Inbound Data		
Success Return		ResponseStatus
Notes:		
Please do not frequently set the network configuration, because the equipment end of the set the network configuration is asynchronous responses, so if you frequently set, only the response to the first operation, the recommended time interval set 3-5s.		
By default, the value of "NetworkCardID" is 1 which represents a wired network, the value of "NetworkCardID" is 2 which represents a wireless network card. For the future, to support more network card, then turn increases here does not support more than 2.		

Wire XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<Interface>
    <ID><!--req, xs:integer--></ID>
    <NetworkCardMode><!--req, xs:string--></NetworkCardMode>
    <IPAddress/><!--req-->
</Interface>
```

9.1.12.1.1 /Network/Interfaces/NetworkCardID/IPAddress

/Network/Interfaces/NetworkCardID/IPAddress		General Resource v1.0
GET		Viewer
Description		It is used to get the ip address of a particular network interface
Query		None
Inbound Data		None
Success Return		IPAddress

PUT		Viewer
Description	It is used to set the ip address of a particular network interface	
Query	None	
Inbound Data	IPAddress	
Success Return	ResponseStatus	

Notes:

Please do not frequently set the network configuration, because the equipment end of the set the network configuration is asynchronous responses, so if you frequently set, only the response to the first operation, the recommended time interval set 3-5s.

By default, the value of "NetworkCardID" is 1 which represents a wired network, the value of "NetworkCardID" is 2 which represents a wireless network card. For the future, to support more network card, then turn increases here does not support more than 2.

IPAddress XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<IPAddress>
    <ipVersion><!--ro,opt,xs:string,V4--></ipVersion>
        <ipAddress><!--req,xs:string--></ipAddress>
    <MacAddress><!--ro,opt,xs:string,readonly--></MacAddress>
    <SubnetMask>
        <!-- req, xs:string, subnet mask for IPv4 address -->
    </SubnetMask>
    <Gateway><!--req,xs:string--></ Gateway>
    <DHCP/><!--req-->
    <DNS/><!--req-->
</IPAddress>
```

9.1.12.1.1.1 /Network/Interfaces/NetworkCardID/IPAddress/DHCP

/Network/Interfaces/NetworkCardID/IPAddress/DHCP		General Resource v1.0
GET		Viewer
Description	It is used to get the DHCP of a particular network interface.	
Query	None	
Inbound Data	None	
Success Return	DHCP	
PUT		Viewer
Description	It is used to set the DHCP of a particular network interface.	
Query	None	
Inbound Data	DHCP	
Success Return	ResponseStatus	

Notes:

Please do not frequently set the network configuration, because the equipment end of the set the network configuration is asynchronous responses, so if you frequently set, only the response to the first operation, the recommended time interval set 3-5s.

Network Card 1 is support the URI /Network/Interfaces/NetworkCardID/IPAddress/DHCP, but Network Card 2 is not support..

The value of the <Status> is invalid in the Network Card 2.

By default, the value of “NetworkCardID” is 1 which represents a wired network, the value of “NetworkCardID” is 2 which represents a wireless network card. For the future, to support more network card, then turn increases here does not support more than 2.

DHCP XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<DHCP>
    <Enable><!--req, xs:boolean--></Enable>
    <Status><!--ro, opt, xs:string, "initializing,obtaining,obtained" --></Status>
</DHCP>
```

9.1.12.1.1.2 /Network/Interfaces/NetworkCardID/IPAddress/DNS

/Network/Interfaces/NetworkCardID/IPAddress/DNS		General Resource v1.0
GET		Viewer
Description	It is used to get the DNS of a particular network interface.	
Query		None
Inbound Data	None	
Success Return		DNS
PUT		Viewer
Description	It is used to set the DNS of a particular network interface.	
Query		None
Inbound Data	DNS	
Success Return		ResponseStaus ResponseStatus

Notes:

Please do not frequently set the network configuration, because the equipment end of the set the network configuration is asynchronous responses, so if you frequently set, only the response to the first operation, the recommended time interval set 3-5s.

Network Card 1 is support the URI /Network/Interfaces/NetworkCardID/IPAddress/DNS, but Network Card 2 is not support..

The value of The <Enable> in the Network Card 2 is depended on the value of the <Enable> in the <DHCP>, so It is invalid that you set the value of the <Enable> in the <DNS>.

By default, the value of “NetworkCardID” is 1 which represents a wired network, the value of “NetworkCardID” is 2 which represents a wireless network card. For the future, to support

more network card, then turn increases here does not support more than 2.

DNS XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<DNS>
    <Enable><!--req, xs:boolean--></Enable>
    <PrimaryDNS><!--req, xs:string--></PrimaryDNS>
    <SecondaryDNS><!--req, xs:string--></SecondaryDNS>
</DNS>
```

9.1.12.1.2 /Network/Interfaces/ NetworkCardID/WIFIAccessPointList

/Network/Interfaces/NetworkCardID/WIFIAccessPointList		General Resource v1.0
GET		Viewer
Description	It is used to get all wireless Access Point List.	
Query	None	
Inbound Data	None	
Success Return	WIFIAccessPointList	

Notes:

Please do not frequently set the network configuration, because the equipment end of the set the network configuration is asynchronous responses, so if you frequently set, only the response to the first operation, the recommended time interval set 3-5s.

Only wireless card supports the URI /Network/Interfaces/NetworkCardID/WIFIAccessPointList.

WirelessMode:

1. legacy 11B only
2. legacy 11A only
3. legacy 11a/b/g mixed
4. legacy 11G only
5. 11ABGN mixed
6. 11N only
7. 11GN mixed
8. 11AN mixed
9. 11BGN mixed

By default, the value of “NetworkCardID” is 1 which represents a wired network, the value of “NetworkCardID” is 2 which represents a wireless network card. For the future, to support more network card, then turn increases here does not support more than 2.

WIFIAccessPointList XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<WIFIAccessPointList><!--req-->
    <AccessPoint><!--opt-->
        <ID><!--ro, req, xs:integer--></ID>
```

```

<SSID><!--ro,req,xs:string--></SSID>
<MACAddress><!--ro,req,xs:string--></MACAddress>
<SignalValue><!--ro,req,xs:integer,0-100--></SignalValue>
<Authentication><!--ro,req,xs:string,None,shared,WPAPSK,WPA2PSK,
W PANONE,WPA,WPA2--></Authentication>
<EncryptType><!--ro,req,xs:string,NONE,WEP,TKIP,AES--></EncryptType>
<WirelessMode><!--ro,req,xs:integer--></WirelessMode>
</AccessPoint>
</WIFI AccessPointList>

```

9.1.12.1.3 /Network/Interfaces/NetworkCardID/Wireless

/Network/Interfaces/NetworkCardID/Wireless		General Resource v1.0
GET		Viewer
Description	It is used to get the WIFI information of a wireless network interface.	
Query	None	
Inbound Data	None	
Success Return	ConnectionConfig	
PUT		Viewer
Description	It is used to set the WIFI information of a wireless network interface.	
Query	None	
Inbound Data	ConnectionConfig	
Success Return	ResponseStatus	
Notes:		
Please do not frequently set the network configuration, because the equipment end of the set the network configuration is asynchronous responses, so if you frequently set, only the response to the first operation, the recommended time interval set 3-5s.		
Only wireless card supports the URI /Network/Interfaces/NetworkCardID/WIFI AccessPointList.		
If <AuthMode> mode is OPEN, SHARED mode, then the <WEP> is Effective. If <AuthMode> model is WPAPSK, WPA2PSK more, then the <WPA> is Effective. Otherwise, they are all not valid.but they are all displayed.		
if the <AuthMode> is WPAPSK or WPA2PSK,the value of the <keyvalue> in the <WPA> should not be empty.		
The value of the <KeyType> in the <WPA> must be "ASCII".		
By default, the value of "NetworkCardID" is 1 which represents a wired network, the value of "NetworkCardID" is 2 which represents a wireless network card.For the future, to support more network card, then turn increases here does not support more than 2.		

WIFI ConnectionConfig XML Block

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

```

<ConnectionConfig> <!--opt-->
    <Enable><!--req,xs:integer,"disconnected,connected" --></Enable>
    <SSID><!--req,xs:string--></SSID>
    <MACAddress><!--ro,req,xs:string--></MACAddress>
    <NetworkType><!--req,xs:string,managed,Ad-hoc--></NetworkType>
    <AuthMode><!--req,xs:string,OPEN,SHRED,WEPAUTO,WPAESK,WPA2PSK,
    WPANONE,WPA,WPA2,NOPASSWORD--></AuthMode>
    <WEP><!--dep,depends on <AuthMode>-->
        <KeyID><!--req,xs:integer,"1-4"--></KeyID>
        <keyList>
            <Key>
                <ID><!--req,xs:integer--></ID>
                <KeyType><!--req,xs:string,"HEX,ASCII"--></KeyType>
                <KeyValue><!--opt,xs:string--></KeyValue>
            </Key>
        </keyList>
    </WEP>
    <WPA><!--dep,depends on <AuthMode>-->
        <EncryptType><!--req,xs:string,NONE,WEPTKIP,AES--></EncryptType>
        <Key>
            <KeyType><!--req,xs:string,"ASCII"--></KeyType>
            <KeyValueBase64><!--req,xs:string,"the length of the source string is 8-31, and this
            value will be codec by base64"--></KeyValueBase64>
        </key>
    </WPA>
</ConnectionConfig>

```

9.1.12.1.4 /Network/Interfaces/NetworkCardID/WIFIStatus

/Network/Interfaces/NetworkCardID/WIFIStatus		General Resource v1.0		
GET		Viewer		
Description	It is used to get the status of a wireless network interface.			
Query	None			
Inbound Data	None			
Success Return	WIFIStatus			
Notes:				
Please do not frequently set the network configuration, because the equipment end of the set the network configuration is asynchronous responses, so if you frequently set, only the response to the first operation, the recommended time interval set 3-5s.				
Only wireless card supports the URI /Network/Interfaces/NetworkCardID/WIFIAccessPointList.				
By default, the value of "NetworkCardID" is 1 which represents a wired network, the value				

of "NetworkCardID" is 2 which represents a wireless network card. For the future, to support more network card, then turn increases here does not support more than 2.

WIFIStatus XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<WIFIStatus><!--req-->
    <State><!--ro,req,xs:string,"open,close,notsupport" --></State>
</WIFIStatus>
```

9.1.12.2 /Network/Interfaces/3/4GCardCfg

Network/Interfaces/3/4GCardCfg		General Resource v1.0
GET		Viewer
Description	It is used to get the configuration of 3/4G card	
Query	None	
Inbound Data	None	
Success Return	ResponseStatus or _4GCardCfg	
PUT		Operator
Description	It is used to set the configuration of 3/4G card	
Query	None	
Inbound Data	_4GCardCfg	
Success Return	ResponseStatus	
Notes: Not all devices support.		

_4GCardCfg XML

```
<?xml version="1.0" encoding="utf-8"?>
<_4GCardCfg>
    <APNMode><!--rw,req,xs:string--></APNMode>
    <APNServer><!--rw,req,xs:string--></APNServer>
    <APNUserName><!--rw,req,xs:string--></APNUserName>
    <APNPassword><!--rw,req,xs:string--></APNPassword>
    <RegisterStatus><!--rw,req,xs:Intreger--></RegisterStatus>
    <SignalVal><!--rw,req,xs:string--></SignalVal>
    <EnableModWander><!--rw,req,xs:string--></EnableModWander>
    <IPAddress><!--rw,req,xs:string--></IPAddress>
    <Gateway><!--rw,req,xs:string--></Gateway>
</_4GCardCfg>
```

9.1.12.3 /Network/Interfaces/3/4GCardInfo

Network/Interfaces/3/4GCardInfo	General Resource v1.0
--	-----------------------

GET	Viewer
Description	It is used to get the info of 3/4G card
Query	None
Inbound Data	None
Success Return	ResponseStatus or _4GCardInfo
Notes: Not all devices support.	

_4GCardCfg XML

```
<?xml version="1.0" encoding="utf-8"?>
<_4GCardInfo>
    <IMSI><!—ro,req,xs:string--></IMSI>
    <IMEI><!—ro,req,xs:string--></IMEI>
    <ACT><!—ro,req,xs:string--></ACT>
    <Operator><!—ro,req,xs:string--></Operator>
    <Band><!—ro,req,xs:string--></Band>
    <ICCID><!—ro,req,xs:string--></ICCID>
</_4GCardInfo>
```

9.1.12.4 /Network/Interfaces/3/4GCardTest

Network/Interfaces/3/4GCardTest	General Resource v1.0
PUT	Operator
Description	It is used to test 3/4G card
Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes: Not all devices support.	

9.1.13 /Network/CloudStorage

Network/CloudStorage	General Resource v1.0
GET	Viewer
Description	It is used to get the device ID of CloudStorage
Query	None
Inbound Data	None
Success Return	ResponseStatus or CloudStorage
PUT	Operator
Description	It is used to set the device ID of CloudStorage
Query	None
Inbound Data	CloudStorage

Success Return	ResponseStatus
Note:	
CloudStorage XML	
<?xml version="1.0" encoding="utf-8"?> <CloudStorage> <DeviceID><!--ro,req,xs:string--></DeviceID> </CloudStorage>	

9.1.13.1 /Network/CloudStorage/BaseConfig

/Network/CloudStorage/BaseConfig		General Resource v1.0
GET		Viewer
Description		It is used to get the base config of cloud storage.
Query		None
Inbound Data		None
Success Return		ResponseStatus or BaseConfig
PUT		Operator
Description		It is used to set the base config of cloud storage.
Query		None
Inbound Data		BaseConfig
Success Return		ResponseStaus
Notes:		

9.1.13.2 /Network/CloudStorage/OpenStatus

/Network/CloudStorage/OpenStatus		General Resource v1.0
GET		Viewer
Description		It is used to get the open status of cloud storage.
Query		None
Inbound Data		None
Success Return		ResponseStatus or OpenStatus
PUT		Operator
Description		It is used to set the open status of cloud storage.
Query		None
Inbound Data		OpenStatus

Success Return	ResponseStaus
Notes:	
OpenStatus XML	
<?xml version="1.0" encoding="utf-8"?> <OpenStatus> <SubscribeStatus><!—ro,req,xs:string "true","false"—></SubscribeStatus> <DealID><!—ro,req,xs:string--></DealID> </OpenStatus>	

9.1.13.3 /Network/CloudStorage/RecordPlan

/Network/CloudStorage/RecordPlan		General Resource v1.0
GET		Viewer
Description	It is used to get the record plan of cloud storage.	
Query	None	
Inbound Data	None	
Success Return	ResponseStatus or RecordPlan	
PUT		Operator
Description	It is used to set the record plan of cloud storage.	
Query	None	
Inbound Data	RecordPlan	
Success Return	ResponseStaus	
Notes:		

RecordPlan XML

9.1.13.4 /Network/CloudStorage/BaseStatus

/Network/CloudStorage/BaseStatus		General Resource v1.0
GET		Viewer
Description		It is used to get the base status of cloud storage.
Query		None
Inbound Data		None
Success Return		ResponseStatus or BaseStatus
PUT		Operator
Description		It is used to set the base status of cloud storage.
Query		None
Inbound Data		BaseStatus
Success Return		ResponseStaus
Notes:		

BaseStatus XML

```
<?xml version="1.0" encoding="utf-8"?>
<BaseStatus>
    <NetworkStatus><!--ro,req,xs:Intreger--></NetworkStatus>
    <StorageStatus><!--ro,req,xs:Intreger--></StorageStatus>
    <ErrorCode><!--ro,req,xs:Intreger--></ErrorCode>
</BaseStatus>
```

9.1.13.5 /Network/CloudStorage/BusinessInfo

/Network/CloudStorage/BusinessInfo		General Resource v1.0
GET		Viewer
Description		It is used to get the business info of cloud storage.
Query		None
Inbound Data		None
Success Return		ResponseStatus or BusinessInfo
PUT		Operator
Description		It is used to set the business info of cloud storage.
Query		None
Inbound Data		BusinessInfo
Success Return		ResponseStaus
Notes:		

BusinessInfo XML

```

<?xml version="1.0" encoding="utf-8"?>
<BusinessInfo>
    <OrderInfo>
        <Status><!--req, xs:string "unBind", "effective", "expired"--></Status>
        <OrderID><!--req, xs:string--></OrderID>
    </OrderInfo>
    <PackageInfo>
        <PackageName><!--req, xs:string--></PackageName>
        <PackageBeginTime><!--req, xs:datetime "20200220T000000"--></PackageBeginTime>
        <PackageEndTime><!--req, xs:datetime "20200220T000000"--></PackageEndTime>
        <CycleDays><!--req, xs:Intger--></CycleDays>
        <RemainDays><!--req, xs:Intger--></RemainDays>
    </PackageInfo>
</BusinessInfo>

```

9.2 /System

/System	General Resource v1.0
---------	-----------------------

9.2.1 /System/Time

/System/Time	General Resource v1.0
GET	Viewer
Description	It is used to get the device time information.
Query	None
Inbound Data	None
Success Return	Time
PUT	Viewer
Description	It is used to update the device time information.
Query	None
Inbound Data	Time
Success Return	ResponseStatus
Notes:	
SystemTime: An ISO 8601 Date/Time string is accepted and returned.	

Time XML Block

```

<?xml version="1.0" encoding="utf-8"?>
<Time>
    <DateTimeFormat>
        <!--req, string, YYYYMMDDWhmmss, YYYYMMDDhhmmss, MMDDYYYYWhmmss, MMD

```

```

YYYYhhmmss,DDMMYYYYWhhmmss,DDMMYYYYhhmmss-->
</DateTimeFormat>
<TimeFormat><!--req,xs:string,12hour,24hour--></TimeFormat>
<SystemTime><!--req,xs:datetime," 20040503T173008+08"--></SystemTime>
</Time>

```

9.2.2 /System/NTP

/System/NTP		General Resource v1.0
GET		Viewer
Description	It is used to get the configuration of NTP server for the device.	
Query	None	
Inbound Data	None	
Success Return	NTP	
PUT		Viewer
Description	It is used to set the configuration of NTP server for the device.	
Query	None	
Inbound Data	NTP	
Success Return	ResponseStatus	
Notes:		
TimeZone: It must be start with "CST".		

NTP XML Block

```

<?xml version="1.0" encoding="utf-8"?>
<NTP>
    <Enable><!--req,xs:boolean--></Enable>
    <ServerName><!--req,xs:string,"example: time.windows.com"--></ServerName>
    <TimeZone><!--req, xs:string, POSIX time zone string,"CST-09:00:00"--></TimeZone>
    <TimeSyncInterval><!--req,xs:integer--></TimeSyncInterval>
</NTP>

```

9.2.3 /System/DST

/System/DST		General Resource v1.0
GET		Viewer
Description	It is used to get the configuration of DST for the device.	
Query	None	

Inbound Data	None
Success Return	DST
PUT	Viewer
Description	It is used to set the configuration of DST for the device.
Query	None
Inbound Data	DST
Success Return	ResponseStatus

Notes:

When the <Mode> is "date" ,the <DateModeStart> and<DateModeStop> is effective , When the <Mode> is "week" ,the < WeekModeStart > and< WeekModeStop > is effective <TimeDifference> the unit is seconds,example:3600 is 3600 seconds <DateModeStart> and <DateModeStop>:An ISO 8601 Date/Time string is accepted and returned. <WeekModeStart> and <WeekModeStop>:the first number of the "3-1-1-2-3-6" is March,the second is the first week of the month,the third is Monday of the first week,the forth is 2 hour,the fifth is 3 minute, the sixth is 6 second

NTP XML Block

```
<?xml version="1.0" encoding="UTF-8" ?>
<DST Version="1.0" xmlns="http://www.zwcloud.wang/ver10/XMLSchema">
    <Enable><!--req,xs:boolean--></Enable>
    <Mode><!--req,xs:string,"date,week"--></Mode>
    <TimeDifference>req,xs:string, </TimeDifference>
    <DateModeStart><!--req,xs:datetime," 20040503T173008+08"--></DateModeStart>
    <DateModeStop><!--req,xs:datetime," 20040503T173008+08"--></DateModeStop>
    <WeekModeStart><!--req,xs:string," 3-1-1-2-3-6"--></WeekModeStart>
    <WeekModeStop><!--req,xs:string," 2-4-5-7-8-8"--></WeekModeStop>
</DST>
```

9.2.4 /System/DeviceInfo

/System/DeviceInfo		General Resource v1.0
GET		Viewer
Description		It is used to get device information.
Query		None
Inbound Data		None
Success Return		DeviceInfo
PUT		Viewer
Description		It is used to set the configuration of DeviceName for the device.
Query		None

Inbound Data	DeviceInfo
Success Return	ResponseStatus
Notes:	
<p><DeviceName> and <ActiveCode> can be set.others are not be set.</p> <p><ActiveStatus> “success” means active success, or be “invalid active code”</p> <p><IsSupportActiveCode>, if this field was false, the client should not show Active Code and Active Status field.</p>	

DeviceInfo XML Block

```

<?xml version="1.0" encoding="utf-8"?>
<DeviceInfo>
    <DeviceName><!--rw,req,xs:string--></DeviceName>
    <BoardType><!--ro,req,xs:integer--></BoardType>
    <DeviceTypeName><!--ro,req,xs:string--></DeviceTypeName>
    <SerialNum><!--ro,req,xs:string--></SerialNum>
    <HardWareVersion><!--ro,req,xs:string--></HardWareVersion>
    <SoftWareVersion><!--ro,req,xs:string--></SoftWareVersion>
    <VideoInputChannels><!--ro,-req,xs:integer--></VideoChannels>
    <AudioChannels><!--ro,req,xs:integer--></AudioChannels>
    <AlarmInputChannels><!--ro,req,xs:integer--></AlarmChannel>
    <AlarmOutputChannels><!--ro,req,xs:integer--></AlarmOutputChannel>
    <MonitorCount><!--ro,req,xs:integer--></MonitorCount>
    <SpotOutChannels><!--ro,req,xs:integer--></SpotOutChannels>
    <TwoWayAudio><!--ro,req,xs:boolean--></TwoWayAudio>
    <SmartAVCList Version="1.0" xmlns="http://www.zwcloud.wang/ver10/XMLSchema">
        <SmartAVC Version="1.0" xmlns="http://www.zwcloud.wang/ver10/XMLSchema">
            <Support><!--ro,opt,xs:Boolean--></Support>
        </SmartAVC>
    </SmartAVCList>
    <IsSupportActiveCode><!--ro,req,xs:boolean--></IsSupportActiveCode>
    <ActiveCode><!--ro,req,xs:string--></ActiveCode>
    <ActiveStatus><!--ro,req,xs:string--></ActiveStatus>
    // Algorithm Version, The version that describes the ai algorithm
    <AlgorithmVersion><!--ro,req,xs:string--></AlgorithmVersion>
</DeviceInfo>

```

9.2.5 /System/DeviceStatus

/System/DeviceStatus	General Resource v1.0
GET	Viewer
Description	It is used to get all Channels Status of the device

Query	None
Inbound Data	None
Success Return	DevicestatusList
Notes:	

DevicestatusList XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<DeviceStatusList>
    <DeviceStatus/><!--opt-->
</DeviceStatusList>
```

9.2.5.1/System/DeviceStatus/ChannelID

/System/DeviceStatus/ID	General Resource v1.0
GET	Viewer
Description	It is used to get a Channel Status of the device
Query	None
Inbound Data	None
Success Return	DeviceStatus
Notes:	
<p>The value of the <FirstSubStreamEnable> field represents whether It is open the first sub stream or not.</p> <p>The value of the <SecondSubStreamEnable> field represents whether It is open the second sub stream or not.</p> <p>The value of the <RecordState> field is “none”,represents“not support” for the Unsupported device,but “no records” for the supported device.</p> <p>The value of the <VideoLostState> field is “false”,represents“not support” for the unsupported device,but “no video lost event” for the supported device.</p> <p>The value of the < MotionState > field is “false”,represents“not support” for the unsupported device,but “no motion event” for the supported device.</p> <p>The value of the < AlarmlnState > field is “false”,represents“not support” for the unsupported device,but “no alarm in event” for the supported device.</p> <p>The value of the < AlarmlnState > field is “false”,represents“not support” for the unsupported device,but “no alarm out event” for the supported device.</p>	

DeviceStatus XML Block

```
<DeviceStatus>
    <ID><!--req,xs:integer--></ID>
    <MainStreamVideoBitrate><!--ro,req,xs:integer --></ MainStreamVideoBitrate>
    <FirstSubStreamEnable><!--ro,req,xs:boolean--></ FirstSubStreamEnable>
```

```

<FirstSubStreamVideoBitrate><!--ro,req,xs:integer--></ FirstSubStreamVideoBitrate>
<SecondSubStreamEnable><!--ro,req,xs:boolean--></ SecondSubStreamEnable>
<SecondSubStreamVideoBitrate><!--ro,req,xs:integer--></SecondStreamVideoBitrate>
<RecordState><!--ro,req,xs:string,"none,alarm,normal,manual,motion"--></RecordState>
<VideoLostState><!--ro,req,xs:boolean--></VideoLostState>
<MotionState><!--ro,req,xs:boolean--></MotionState>
<AlarmInState><!--ro,req,xs:boolean--></AlarmInState>
<AlarmOutState><!--ro,req,xs:boolean--></AlarmOutState>
</DeviceStatus>

```

9.2.6 /System/FirmwareUpgrade

/System/FirmwareUpgrade		General Resource v1.0
PUT		Viewer
Description		It is used to upgrade the firmware of the device.
Query		None
Inbound Data		Opaque Data
Success Return		ResponseStatus
Notes:		
The URI /System/FirmwareUpgrade shows the equipment upgrade, using HTTP PUT method, with authentication and update files to be uploaded.		

9.2.7 /System/Reboot

/System/Reboot		General Resource v1.0
PUT		Viewer
Description		It is used to reboot the device.
Query		None
Inbound Data		None
Success Return		ResponseStatus
Notes:		

9.2.8 /System/FactoryDefault

/System/FactoryDefault		General Resource v1.0
PUT		Viewer

Description	It is used to reset the configuration for the device to the factory default.
Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	It is not recovery the network configuration.

9.2.9 /System/FactoryDefaultV2

/System/FactoryDefaultV2	General Resource v1.0
PUT	Viewer
Description	It is used to reset the configuration for the device to the factory default.
Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	It is recovery all configuration.

9.2.10 /System/SendTestEmail

/System/SendTestEmail	General Resource v1.0
PUT	Viewer
Description	It is used to Send Test Email.
Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	Please first properly configured Email Configuration with using the URL /Network/Email.

9.2.11 /System/RecoveryAdminPassword

/System/RecoveryAdminPassword	General Resource v1.0
PUT	Viewer
Description	It is used to Recovery the password of the user "admin" Password And IP.

Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	
Defaultly the password of the user “admin” is empty,The IP is “192.168.1.11” .	

9.2.12 /System/TryListenCurrentAlarmAudio

/System/TryListenCurrentAlarmAudio	General Resource v1.0
PUT	Viewer
Description	Listen to the current alarm audio
Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	

9.2.13 /System/Logging

/System/Logging	General Resource v1.0
GET	Viewer
Description	It is used to get the log information of the device.
Query	majorType minorType startTime stopTime
Inbound Data	None
Success Return	LogList
Notes:	
The value of “majorType” is: 1:System Operation 2:Configuration Operation 3:Record Operation 4:User Management 5:Alarm Event 6:Exception Event 7:Storage Management 8:All Operation	
When the value of “majorType” is 1, the value of “minorType” is: 0: All System Operation	

1: System upgrade

2: PTZ control

3: Illegal shutdown

4: Normal shutdown

5: Startup

6: Remote reboot

7:Clear alarm

When the value of “majorType” is 2, the value of “minorType” is:

100:All Configuration Operation

101: Record time table settings

102: Normal settings

103: Encoding settings

104: Network settings

105: Server settings

106: Motion detection settings

107: PTZ decoder settings

108: Restore default settings

109: Set display device parameters

110: Display mode settings

111: Image color settings

112: Auto-maintenance settings

113: Alarm output settings

114: Alarm input settings

115: Function customize settings

116: Import PTZ protocol

117: Export PTZ protocol

118: Import parameters settings

119: Export parameters settings

120: Abnormal parameters settings

When the value of “majorType” is 3, the value of “minorType” is:

200: All Record Operation

201: Start manual record

202: Start auto record

203: Stop

When the value of “majorType” is 4, the value of “minorType” is:

300:All User Management

301: Add user

302: Delete user

303: Modify user

304: User login

305: User logout

When the value of “majorType” is 5, the value of “minorType” is:

400: All Alarm Event

401: Motion detection begin

402: Motion detection end
403: Input alarm begin
When the value of “majorType” is 6, the value of “minorType” is:
500: All Exception Event
501: IP confliction
502: HDD full
503: HDD error
504: Illegal visit
505: Signal loss
506: Signal restore
507: Network disconnect
When the value of “majorType” is 7, the value of “minorType” is:
600: All Storage Management
601: Format partition
602: Create partition
603: Delete partition
604: Uninstall HDD
605: HDD group management

The format of “startTime” and “stopTime” is “YYYY-MM-DDThh:mm:ss”.
Devices support up to 1000 log.

For example:

<http://192.168.1.171/System/Logging?majorType=8&minorType=0&startTime=2015-07-28T00:00:00&stopTime=2015-07-29T23:59:00>.

The value of the minorType is invalid for some device.

LogList XML Block

```
<LogList>
  <Log> <!-- opt -->
    <ID> <!-- req, xs:integer --> </ID>
    <time> <!--req, xs:datetime --> </time>
    <majorType> <!--req, xs:integer --> </majorType>
    <minorType> <!--req, xs:integer --> </minorType>
    <netUser> <!--req, xs:string --> </netUser>
    <hostIPAddress> <!--req, xs:string --> </hostIPAddress>
    <channel> <!--req, xs:integer --> </channel>
  </Log>
</LogList>
```

9.2.14 /System/Users

GET		Viewer
Description	It is used to get the configuration of all users for the device.	
Query	None	
Inbound Data	None	
Success Return	UserList	
Notes:		

NTP XML Block

```
<?xml version="1.0" encoding="UTF-8" ?>
<UserList>
    <User> <!-- opt -->
</UserList>
```

9.2.15 /System/Users/ID

/System/Users/ID		General Resource v1.0
GET		Viewer
Description	It is used to get the configuration of the specifies ID user for the device.	
Query	None	
Inbound Data	None	
Success Return	User	
PUT		Viewer
Description	It is used to update the specifies user for the device.	
Query	None	
Inbound Data	User	
Success Return	ResponseStatus	
POST		Viewer
Description	It is used to add a user for the device.	
Query	None	
Inbound Data	User	
Success Return	ResponseStatus	
Delete		Viewer
Description	It is used to delete the specifies user for the device.	
Query	None	
Inbound Data	User	
Success Return	ResponseStatus	

Notes:

When call the "GET" method ,The <ID> unit is effective,when call other method , The <ID> unit is no effective.you can not set the user information by <ID>,you just set user password by <UserName>.

The <ID> is start at 1.

Please do not delete the "Default" or "admin" user.

Please do not create a "Default" or "Administrator" level user,you just can create a "Normal" level user.

We just support the user level ,the right for the different level is your decision.

NTP XML Block

```
<?xml version="1.0" encoding="UTF-8" ?>
<User>
    <ID><!--req,xs:integer--></ID>
    <UserName><!--req,xs:string--></UserName>
    <Password><!--wo,req,xs:string--></Password>
    <UserLevel><!--req,xs:string,"Default,Administrator,Normal"--></UserLevel>
    <IPAddress><!--ro,opt,xs:string--></IPAddress>
    <MACAddress><!--ro,opt,xs:string--></MACAddress>
</User>
```

9.2.16 /System/ChannelID/RemoteForceIFrame

/System/ChannelID/RemoteForceIFrame		General Resource v1.0
PUT		Viewer
Description		It is used to Remote Force I Frame.
Query		None
Inbound Data		None
Success Return		ResponseStatus
Notes:		
The <ChannelID> in URI shows the channel number.The <ChannelID> is start at 1.		

9.2.17 /System/ChannelID/RemoteAlarmOutClear/ID

/System/ChannelID/RemoteAlarmOutClear/ID		General Resource v1.0
PUT		Viewer
Description		It is used to Remote Clear Alarm out.
Query		None
Inbound Data		None
Success Return		ResponseStatus

Notes:

The <ChannelID> in URI shows the alarm channel number. The <ChannelID> is start at 1. The <ID> in URI shows the Alarm Type, please set the ID to 0.

9.2.18 /System/ChannelID/RemoteAlarmoutControl/on

/System/ChannelID/RemoteAlarmoutControl/on		General Resource v1.0
PUT		Viewer
Description	It is used to open alarmout state	
Query	None	
Inbound Data	None	
Success Return	ResponseStatus	
Notes:		
The ChannelID in URI shows the alarm channel number. The <ChannelID> is start at 1. It is used to set the alarmout state to open in the /System/AlarmoutState.		

9.2.19 /System/ChannelID/RemoteAlarmoutControl/off

/System/ChannelID/RemoteAlarmoutControl/off		General Resource v1.0
PUT		Viewer
Description	It is used to close alarmout state	
Query	None	
Inbound Data	None	
Success Return	ResponseStatus	
Notes:		
The ChannelID in URI shows the alarm channel number. The <ChannelID> is start at 1. It is used to set the alarmout state to close in the /System/AlarmoutState.		

9.2.20 /System/AlarmoutState

/System/Alarmoutstate		General Resource v1.0
GET		Viewer
Description	It is used to close alarmout	
Query	None	
Inbound Data	None	
Success Return	AlarmoutState	
Notes:		
The format of <State> is similar to "11111111" or "00000000", Each bit represents whether		

the alarm of a channel is open or not, NO.1 means trigger the alarm-out, NO.0 means not yet trigger the alarm-out, for example, the string “11111111” Represents that the device is 8 channels, from left to right, represent channel 1,channel 2,channel 3..... and so on.

AlarmoutState XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<AlarmoutState><!--req-->
    <State><!--ro,req,xs:string,"0000000000000000" --></State>
</ AlarmoutState>
```

9.2.21 /System/AlarminState

/System/Alarminstate		General Resource v1.0		
GET	Viewer			
Description	It is used to close alarmout			
Query	None			
Inbound Data	None			
Success Return	AlarminState			
Notes:				
The format of <State>is similar to “11111111” or “00000000”, Each bit represents whether the alarm of a channel is open or not, NO.1 means close, NO.0 means open, for example, the string “11111111” Represents that the device is 8 channels, from left to right, represent channel 1,channel 2,channel 3..... and so on.				

AlarminState XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<AlarminState><!--req-->
    <State><!--ro,req,xs:string,"0000000000000000" --></State>
</ AlarminState>
```

9.2.22 /System/DeviceConfigFile

/System/DeviceConfigFile		General Resource v1.0
GET	Viewer	
Description	It is used to download the device configuration file	
Query	None	
Inbound Data	None	
Success Return	Config file	
PUT	Viewer	

Description	It is used to upload the device configuration file
Query	None
Inbound Data	Config file
Success Return	ResponseStatus
Notes:	

9.2.23 /System/TransparentChannel/WriteOnce

/System/TransparentChannel/WriteOnce		General Resource v1.0
PUT		Operator
Description		It is used to send data on the transparent channel.
Query		None
Inbound Data		TransparentChannelWriteonce
Success Return		ResponseStatus
Notes:		
<p style="color: red;"><Data> please put the data you want to send to the string type.the format of data is “12 23 ff fe fc”,the max count of number is 32.the range of value is 0--ff</p> <p style="color: red;">The value of “majorType” is the number such as,0,1,2....., when the value is 0,the type of Serial port is RS232,when the value is 1,the Type of Serial port is RS485,when the value is 2, the type of Serial port is RS422.</p> <p style="color: red;">Thie value of “minorType” is also number such as 0,1,2....., default the value is 0.</p> <p style="color: red;">Default the value of the majorType is 2 and the value of the minorType is 0.others is not support .</p> <p style="color: red;">The baudrate is depend on the URL /PTZ/ChannelID/Config.</p> <p>For example:</p> <p style="color: red;">http://192.168.1.171/System/TransparentChannel/WriteOnce?majorType=2&minorType=0</p>		

TransparentChannelWriteOnce XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<TransparentChannelWriteonce><!--req-->
    <Data><!--ro,req,xs:string, --></Data>
</TransparentChannelWriteonce>
```

9.2.24 /System/TransparentChannel/Connect

/System/TransparentChannel/Connect	General Resource v1.0
---	-----------------------

PUT		Operator
Description	It is used to create a connection on the transparent channel.	
Query	None	
Inbound Data	TransparentChannelConnectReponse	
Success Return	ResponseStatus	
Notes:	<p>The value of "majorType" is the number such as,0,1,2.....,default the value is 0.</p> <p>The value of "minorType" is also number such as 0,1,2.....,when the value is 0,the type of Serial port is RS232,when the value is 1,the Type of Serial port is RS485,when the value is 2, the type of Serial port is RS422.</p> <p>This URL is not support.</p> <p>For example:</p> <p>http://192.168.1.171/System/TransparentChannel/Connect?majorType=2&minorType=0</p>	

TransparentChannelConnectReponse XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<TransparentChannelConnectReponse><!--req-->
    <Index><!--ro,req,xs:string, --></Index>
</TransparentChannelConnectReponse>
```

9.2.25 /System/TransparentChannel/Write

/System/TransparentChannel/Write		General Resource v1.0
PUT		Operator
Description	It is used to write data on the transparent channel.	
Query	None	
Inbound Data	TransparentChannelWrite	
Success Return	ResponseStatus	
Notes:	<p><Index> the Index need be set, It is from the response of "/System/TransparentChannel/Connect".</p> <p><Data> please put the data you want to send to the string type.</p> <p>This URL is not support.</p>	

AlarmInState XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<TransparentChannelWrite><!--req-->
    <Index><!--ro,req,xs:string, --></Index>
    <Data><!--ro,req,xs:string, --></Data>
</TransparentChannelWrite>
```

9.2.26 /System/TransparentChannel/Read

/System/TransparentChannel/Read		General Resource v1.0
PUT		Operator
Description		It is used to read datas on the transparent channel.
Query		None
Inbound Data		TransparentChannelRead
Success Return		ResponseStatus
Notes:		
<Index> the Index need be set, It is from the response of "/System/TransparentChannel/Connect".		
<Data> the data is from device.		
This URL is not support.		

AlarmInState XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<TransparentChannelRead><!--req-->
    <Index><!--ro,req,xs:string, --></Index>
    <Data><!--ro,req,xs:string, --></Data>
</TransparentChannelRead>
```

9.2.27 /System/TransparentChannel/Disconnect

/System/TransparentChannel/Disconnect		General Resource v1.0
PUT		Operator
Description		It is used to destroy the connection on the transparent channel.
Query		None
Inbound Data		TransparentChannelDisconnect
Success Return		ResponseStatus
Notes:		
<Index> the Index need be set, It is from the response of "/System/TransparentChannel/Connect".		
This URL is not support.		

AlarmInState XML Block

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

```

<Index><!--ro,req,xs:string, --></Index>
</TransparentChannelDisconnect>

```

9.2.28 /System/DeviceAutoMaintenance

/System/DeviceAutoMaintenance		General Resource v1.0
GET		Viewer
Description		It is used to send data on the transparent channel.
Query		None
Inbound Data		None
Success Return		ResponseStatus or AutoMaintenance
PUT		Operator
Description		It is used to send data on the transparent channel.
Query		None
Inbound Data		AutoMaintenance
Success Return		ResponseStatus
Notes:		
<Enable>: when <Enable> is false ,other value is invalid, otherwise,other value is valid.		
<Mode>: when <Mode> is “everyweek”,<WeekDayMask> and <MaintenanceTime> is valid,when <Mode> is “everyday” or “once”,only <MaintenanceTime>is valid.		
<WeekDayMask>:the format of <WeekDayMask> is “0000000”,from left to right,it is show Sunday,Monday,Tuesday,Wednesday,Thursday,Friday,Saturday.if the bit for one day is “1”,then this day is open automatic-maintenance,otherwise,this is close automatic-maintenance.		

AlarmInState XML Block

```

<?xml version="1.0" encoding="utf-8"?>
<AutoMaintenance><!--req-->
    <Enable><!--req,xs:boolean--></Enable>
    <Mode><!--req,xs:string,"everyweek,everyday,once"--></Mode>
    <WeekDayMask><!--req,xs:string,"0000000"--></WeekDayMask>
    <MaintenanceTime><!--req,xs:datetime," 20040503T173008"-->
    </ MaintenanceTime>
</AutoMaintenance>

```

9.2.29 /System/SendTestFTP

/System/SendTestFTP		General Resource v1.0
PUT		Viewer
Description		It is used to Send Test FTP.

Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	
Please first properly configured Email Configuration with using the URL /Network/FTP.	

9.2.30 /System/DeviceWifiSTA2AP

/System/DeviceWifiSTA2AP	General Resource v1.0
PUT	Viewer
Description	It is used to Enter AP Mode
Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	

9.2.31 /System/DeviceWifiAP2STA

/System/DeviceWifiAP2STA	General Resource v1.0
PUT	Viewer
Description	It is used to Enter STA Mode
Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	

9.2.32 /System/DeviceCustomFunction

/System/DeviceCustomFunction	General Resource v1.0
PUT	Viewer
Description	It is used to custom function.
Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	
You can transfer data that you want to transfer.	

9.2.33 /System/CloudUpgradeServerInfo

/System/CloudUpgradeServerInfo		General Resource v1.0
PUT		Viewer
Description		It is used to Set cloud upgrade server information.
Query		None
Inbound Data		CloudUpgradeServer
Success Return		ResponseStatus
Notes:		
The following configuration is the configuration of the upgrade server, including the IP,<HostIP>, the port number of the service,<Port>, the username,<Username> and password,<Password>, the protocol,<Protocol> used, the corresponding path,<Path>		

CloudUpgradeServer XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<CloudUpgradeServer><!--req-->
    <Port><!--req,xs:integer,0-65535--></Port>
    <HostIP><!--req,xs:string,it must be a ip address--></HostIP>
    <Username><!--req,xs:string,the max length is 256--></Username>
    <Password><!--req,xs:string,the max length is 256--></Password>
    <Protocol><!--req,xs:string,http or ftp--></Protocol>
    <Path><!--req,xs:string,the max length is 128--></Path>
</CloudUpgradeServer>
```

9.2.34 /System/CloudUpgradeFirmwareList

/System/CloudUpgradeFirmwareList		General Resource v1.0
GET		Viewer
Description		It is used to get cloud upgrade firmware list.
Query		None
Inbound Data		FirmwareList
Success Return		ResponseStatus
Notes:		
Example: <http://192.168.1.11/System/CloudUpgradeFirmwareList?VersionType=all default (all, It is get all firmware version list, default,It is get a the newest firmware version)>		

FirmwareList XML Block

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

```

<Firmware>
  <Name><!--req, xs:string--></Name>
  <Desc><!--req, xs:string--></Desc>
  <Version><!--req, xs:string--></Version>
  <TotalSize><!--req, xs:integer--></TotalSize>
</Firmware>
</FirmwareList>

```

9.2.35 /System/CloudUpgradeDownloadStart

/System/CloudUpgradeDownloadStart		General Resource v1.0
PUT		Viewer
Description		It is used to Start the Download.
Query		None
Inbound Data		Action
Success Return		ResponseStatus
Notes: <p><Passport> It must be a unique string and generated by the client, and all subsequent operations depend on this string.</p> <p><FirmwareName> It is a string getting by the url “/System/CloudUpgradeFirmwareList”</p>		

Action XML Block

```

<?xml version="1.0" encoding="utf-8"?>
<Action><!--req-->
  <Passport><!--req, xs:string--></Passport>
  <FirmwareName><!--req, xs:string, --></FirmwareName>
</Action>

```

9.2.36 /System/CloudUpgradeDownloadStatus

/System/CloudUpgradeDownloadStatus		General Resource v1.0
GET		Viewer
Description		It is used to get the result of the download.
Query		None
Inbound Data		None
Success Return		Status
Notes: <p>Example:</p> <p>http://192.168.1.11/System/CloudUpgradeDownloadStatus?Passport=abc (the “abc” is a string generated by the client)</p>		

Status XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<Status><!--req-->
    <Status><!--req,xs:string--></Status>
    <TotalSize><!--req,xs:string--></TotalSize>
    <SentSize><!--req,xs:string--></SentSize>
    <Passport><!--req,xs:string--></Passport>
</Status>
```

9.2.37 /System/CloudUpgradeDownloadTerminate

/System/CloudUpgradeDownloadTerminate	General Resource v1.0
PUT	Viewer
Description	It is used to terminate the Download.
Query	None
Inbound Data	Action
Success Return	ResponseStatus
Notes:	

Action XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<Action><!--req-->
    <Passport><!--req,xs:string--></Passport>
</Action>
```

9.2.38 /System/CloudUpgradeStartUpgrade

/System/CloudUpgradeStartUpgrade	General Resource v1.0
PUT	Viewer
Description	It is used to start to upgrade.
Query	None
Inbound Data	Action
Success Return	ResponseStatus
Notes:	

Action XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<Action><!--req-->
    <Passport><!--req,xs:string--></Passport>
```

```
</Action>
```

9.2.39 /System/CloudUpgradeResult

/System/CloudUpgradeResult	General Resource v1.0
GET	Viewer
Description	It is used to get the result of the cloud upgrade
Query	None
Inbound Data	None
Success Return	UpgradeStatus
Notes:	
Example: <code>http://192.168.1.11/System/CloudUpgradeResult?Passport=abc</code> (the “abc” is a string generated by the client)	

UpgradeStatus XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<UpgradeStatus><!--req-->
    <Status><!--req, xs:string--></Status>
    <Passport><!--req, xs:string--></Passport>
    <FirmwareName><!--req, xs:string--></FirmwareName>
</UpgradeStatus>
```

9.2.40 /System/ErrorInfoMap

/System/ErrorInfoMap	General Resource v1.0
GET	Viewer
Description	It is used to get the special error description.
Query	None
Inbound Data	None
Success Return	ErrorInfo
Notes:	
<ErrorCode> it is a returnd error code by the http server. <ErrorDescription>it is a returnd error description by the http server.	
Example: <code>http://192.168.1.11/System/ErrorInfoMap?ErrorCode=(0 1 2)</code>	

ErrorInfo XML Block

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

```

<ErrorCode><!--req,xs:integer--></ErrorCode>
<ErrorDescription><!--req,xs:string--></ErrorDescription>
</ErrorInfo>

```

9.2.41 /System/DeviceCap

/System/DeviceCap		General Resource v1.0		
GET		Viewer		
Description	It is used to get the device capability.			
Query	None			
Inbound Data	None			
Success Return	Device			
Notes:				
With the upgrading of devices and the increase of functions, the following XML is constantly updated.				

Device XML Block

```

<?xml version="1.0" encoding="UTF-8" ?>
<Device>
    <AlarmOutCount>0</AlarmOutCount>
    <AlarmInCount>0</AlarmInCount>
    <FunctionList>
        <SD><!--xs:boolean--></SD>
        <WIFI><!--xs:boolean--></WIFI>
        <TwoWayAudio><!--xs:boolean--></TwoWayAudio >
        <AP><!--xs:boolean--></AP>
        <Wavelink><!--xs:boolean--></Wavelink>
        <Smartlink><!--xs:boolean--></Smartlink>
        <Email><!--xs:boolean--></Email>
        <FTP><!--xs:boolean--></FTP>
        <RemoteReboot><!--xs:boolean--></RemoteReboot>
        <Restore><!--xs:boolean--></Restore>
        <PasswordModify><!--xs:boolean--></PasswordModify>
    </FunctionList>
    <FunctionListAboutChannel>
        <ChannelList>
            <Channel ChannelID="0">
                <Audio><!--xs:boolean--></Audio>
                <Motion><!--xs:boolean--></Motion>
                <ColorNight><!--xs:boolean--></ColorNight>
                <IntelligentNight><!--xs:boolean--></IntelligentNight>
                <MotionSensitive>

```

```

<Highest><!--xs:boolean--></Highest>
<Higher><!--xs:boolean--></Higher>
<High><!--xs:boolean--></High>
<Middle><!--xs:boolean--></Middle>
<Low><!--xs:boolean--></Low>
<Lower><!--xs:boolean--></Lower>
<Lowest><!--xs:boolean--></Lowest>
</MotionSenstive>
<multi_osd>true</multi_osd>
<mosd_cnt>16</mosd_cnt>
<mosd_cord>16</mosd_cord>
</Channel>
</ChannelList>
</FunctionListAboutChannel>
</Device>

```

9.2.42 /System/AudioAlarmConfig

/System/AudioAlarmConfig		General Resource v1.0
GET		Viewer
Description	Get the sound alarm configuration	
Query	None	
Inbound Data	None	
Success Return	AudioAlarm	
PUT		Viewer
Description	Set the sound alarm configuration	
Query	None	
Inbound Data	AudioAlarm	
Success Return	ResponseStatus	
Notes:		

AudioAlarm XML

```

<?xml version="1.0" encoding="utf-8"?>
<AudioAlarm><!--req-->
    <Enable><!--req, xs:boolean--></Enable>
    <Type><!--req, xs:string, "custom,alarm,dog,warning area,monitoring area,welcome,Deep Water Warning,Private territory,danger zone,Valuable objects,High Warning,Private Parking,Ding Dong,HasMask,NoMask"--></Type>
    <Delay><!--req, xs:intger, the unit is second--></Delay>
    <Volume><!--req, xs:intger, 0--100--></Volume>
</AudioAlarm>

```

9.2.43 /System/TryListenSelectedAlarmAudio

/System/TryListenSelectedAlarmAudio	General Resource v1.0
PUT	Viewer
Description	Listen to the currently selected alarm audio
Query	None
Inbound Data	AudioAlarm
Success Return	ResponseStatus
Notes:	

AudioAlarm XML

```
<?xml version="1.0" encoding="utf-8"?>
<AudioAlarm><!--req-->
    <Enable><!--req, xs:boolean--></Enable>
        //custom, alarm, dog, warning area, monitoring area, welcome, Deep Water Warning,
        Private territory, danger zone, Valuable objects, High Warning, Private Parking
    <Type><!--req, xs:string, "alarm,dog,custom"--></Type>
    <Delay><!--req, xs:integer, the unit is second--></Delay>
    <Volume><!--req, xs:integer, 0--100--></Volume>
</AudioAlarm>
```

9.2.44 /System/SaveHardwareConfig

/System/SaveHardwareConfig	General Resource v1.0
PUT	Viewer
Description	Save hardware configuration
Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	

9.2.45 /System/CancelHardwareConfig

/System/CancelHardwareConfig	General Resource v1.0
PUT	Viewer
Description	Unconfigure hardware
Query	None
Inbound Data	None
Success Return	ResponseStatus

Notes:

9.2.45 /System/AuthInfo

/System/AuthInfo		General Resource v1.0
GET		Viewer
Description		It is used to get the activation info
Query		None
Inbound Data		None
Success Return		AuthInfo
PUT		Viewer
Description		It is used to activate or unactivate the device
Query		None
Inbound Data		AuthInfo
Success Return		ResponseStatus
Notes:		
If you want to unactivate the device, set the “AuthInfo” as empty		

AuthInfo XML

<pre><Auth> <AuthInfo><!--req, xs:string--></AuthInfo> </Auth></pre>
--

9.2.46 /System/DeviceCMS

/System/DeviceCMS		General Resource v1.0
GET		Viewer
Description		It is used to get the config of center server
Query		None
Inbound Data		None
Success Return		cms
PUT		Viewer
Description		It is used to set the config of center server
Query		None
Inbound Data		cms
Success Return		ResponseStatus
Notes:		

cms XML

```

<cms>
  <Enable><!--req,xs:boolean--></Enable >
  <ServerAddress><!--req,xs:string--></ServerAddress>
  <Port><!--req,xs:integer--></Port>
  <RegisterInterval><!--req,xs:integer--></ RegisterInterval>
</cms>

```

9.2.47 /System/DeviceInfoV2

/System/DeviceInfoV2		General Resource v1.0
GET		Viewer
Description	It is used to get the device info v2	
Query		None
Inbound Data		None
Success Return		ResponseStatus or DeviceInfoV2
PUT		Operator
Description	It is used to set the device info v2	
Query		None
Inbound Data		DeviceInfoV2
Success Return		ResponseStatus
Notes:		

DeviceInfoV2 XML

```

<DeviceInfoV2>
  <SerialCustom><!--opt,xs:boolean--></SerialCustom >
  <SerialNumber><!--req,xs:string--></SerialNumber>
</DeviceInfoV2>

```

9.2.48 /System/DeviceReversePacket

PUT		Operator
Description		It is used to control device to make update packet and save to storage.
Query		None
Inbound Data		DeviceInfoV2
Success Return		ResponseStatus
Notes:		

9.2.49 /System/ChannelID/AssistantInterfaceControl

/System/ChannelID/AssistantInterfaceControl		General Resource v1.0
GET		Viewer
Description		It is used to get the status of assistant interface
Query		None
Inbound Data		None
Success Return		ResponseStatus or AssistantInterfaceList
PUT		Operator
Description		It is used to set the status of assistant interface
Query		None
Inbound Data		AssistantInterfaceList
Success Return		ResponseStatus
Notes:		
The status will recovery after restart.		

AssistantInterfaceList XML

```
<AssistantInterfaceList>
    <AssistantInterface>
        <ChannelID><!--req, xs:Integer--></ChannelID>      //no need when put
        <AssistantID><!--req, xs:Integer--></AssistantID>
        <Status><!--req, xs:string "Disable", "Enable"--></Status>
    </AssistantInterface>
    ...
</AssistantInterfaceList>
```

9.2.50 /System/WorkModeControl

/System/WorkModeControl		General Resource v1.0
GET		Viewer
Description		It is used to get the work mode of system
Query		None
Inbound Data		None
Success Return		ResponseStatus or SystemWorkMode
PUT		Operator
Description		It is used to set the work mode of system
Query		None
Inbound Data		SystemWorkMode
Success Return		ResponseStatus
Notes:		
The work mode will recovery after restart		

SystemWorkMode XML

```

<SystemWorkMode>
    <WorkMode><!--req,xs:string"TestMode","NormalMode"--></WorkMode>
</SystemWorkMode>

```

9.2.51 /System/DeviceBindConfig

/System/DeviceBindConfig		General Resource v1.0
GET		Viewer
Description	It is used to get the config of device bind	
Query	None	
Inbound Data	None	
Success Return	ResponseStatus or DeviceBindConfig	
PUT		Operator
Description	It is used to set the config of device bind	
Query	None	
Inbound Data	DeviceBindConfig	
Success Return	ResponseStatus	
Notes:		
SCodeValid is not required in "HTTP Put"		

DeviceBindConfig XML

```

<DeviceBindConfig>
    <SCodeValid><!--ro,opt,xs:boolean"true","false"--></SCodeValid>
    <SCode><!--rw,req,xs:string--></SCode>
</DeviceBindConfig>

```

9.2.52 /System/LongSeeDeviceConfig

/System/LongSeeDeviceConfig		General Resource v1.0
GET		Viewer
Description	It is used to get the config of longsee device	
Query	None	
Inbound Data	None	
Success Return	ResponseStatus or LongSeeDeviceInfo	
PUT		Operator
Description	It is used to set the config of longsee device	
Query	None	
Inbound Data	LongSeeDeviceInfo	
Success Return	ResponseStatus	
Notes:		

LongSeeDeviceInfo XML

```

<LongSeeDeviceInfo>
    <MacAddress><!--rw,req,xs:string--></MacAddress>
    <SerialNum><!--rw,req,xs:string--></SerialNum>
</LongSeeDeviceInfo>

```

9.2.53 /System/DeleteVoiceCustom

/System/DeleteVoiceCustom		General Resource v1.0
PUT		Operator
Description		It is used to delete voice custom
Query		None
Inbound Data		LongSeeDeviceInfo
Success Return		ResponseStatus
Notes:		

9.2.54 /System/Language

/System/Language		General Resource v1.0
GET		Viewer
Description		It is used to get the system language
Query		None
Inbound Data		None
Success Return		ResponseStatus or SystemLanguageConfig
PUT		Operator
Description		It is used to set the system language
Query		None
Inbound Data		SystemLanguageConfig
Success Return		ResponseStatus
Notes:		
SystemLanguageConfig XML		
<SystemLanguageConfig> <Language><!--rw,req,xs:string--></Language> </SystemLanguageConfig>		

9.2.55 /System/PerformanceStatus

/System/PerformanceStatus	General Resource v1.0
GET	Viewer

Description	It is used to get the system performance status
Query	None
Inbound Data	None
Success Return	ResponseStatus or SystemPerformanceStatus
Notes:	

SystemPerformanceStatus XML

```
<SystemPerformanceStatus>
    <CPUPercent><!--req, xs:string "80%"--></CPUPercent>
    <MemoryPercent><!--req, xs:string "80%"--></MemoryPercent>
    <StoragePercent><!--req, xs:string "80%"--></StoragePercent>
    <UpTime><!--req, xs:Integer--></UpTime>
    <OpenDoorCount><!--req, xs:Integer--></OpenDoorCount>
    <BootCount><!--req, xs:Integer--></BootCount>
    <MemorySize><!--req, xs:Integer--></MemorySize>
</SystemPerformanceStatus>
```

9.2.56 /System/FiberHomeBaseInfo

/System/FiberHomeBaseInfo		General Resource v1.0
GET		Viewer
Description		It is used to get the base info of camera
Query		None
Inbound Data		None
Success Return		ResponseStatus or CameraBaseInfo
Notes:		

CameraBaseInfo XML

```
<CameraBaseInfo>
    <ManufactureID><!--req, xs:string--></ManufactureID>
    <DevMod><!--req, xs:string--></DevMod>
    <DetailID><!--req, xs:string eg: 13001SN-01--></DetailID>
</CameraBaseInfo>
```

9.2.57 /System/FiberHomeLocationInfo

/System/FiberHomeLocationInfo		General Resource v1.0
GET		Viewer
Description		It is used to get the location info
Query		None
Inbound Data		None
Success Return		ResponseStatus or CameraLocationInfo

PUT		Operator
Description	It is used to set the location info	
Query	None	
Inbound Data	CameraLocationInfo	
Success Return	ResponseStatus	
Notes:		

CameraLocationInfo XML

```
<CameraLocationInfo>
    <SiteName><!--rw,req,xs:string--></SiteName>
    <SiteAddr><!--rw,req,xs:string--></SiteAddr>
    <DevName><!--rw,req,xs:string--></DevName>
    <DevAddr><!--rw,req,xs:string--></DevAddr>
</CameraLocationInfo>
```

9.2.58 /System/FiberHomeCtrlChnlServer

/System/FiberHomeCtrlChnlServer		General Resource v1.0
GET		Viewer
Description	It is used to get ctrl chnl server	
Query	None	
Inbound Data	None	
Success Return	ResponseStatus or CtrlChnlServerInfo	
PUT		Operator
Description	It is used to set ctrl chnl server	
Query	None	
Inbound Data	CtrlChnlServerInfo	
Success Return	ResponseStatus	
Notes:		

CtrlChnlServerInfo XML

```
<CtrlChnlServerInfo>
    <CtrlChnlServer><!--rw,req,xs:string--></CtrlChnlServer>
</CtrlChnlServerInfo>
```

9.2.59 /System/FiberHomeLocationID

/System/FiberHomeLocationID		General Resource v1.0
GET		Viewer
Description	It is used to get location id	
Query	None	
Inbound Data	None	

Success Return	ResponseStatus or LocationIDInfo
PUT	Operator
Description	It is used to set the location id
Query	None
Inbound Data	LocationIDInfo
Success Return	ResponseStatus
Notes:	

LocationIDInfo XML

```
<LocationIDInfo>
    <LocationID><!--rw,req,xs:string--></LocationID>
</LocationIDInfo>
```

9.2.60 /System/FiberHomeDataCenterServer

/System/FiberHomeDataCenterServer		General Resource v1.0
GET		Viewer
Description		It is used to get the date center server
Query		None
Inbound Data		None
Success Return		ResponseStatus or DataCenterServerInfo
PUT		Operator
Description		It is used to set the date center server
Query		None
Inbound Data		DataCenterServerInfo
Success Return		ResponseStatus
Notes:		

DataCenterServerInfo XML

```
<DataCenterServerInfo>
    <DataCenterServer><!--rw,req,xs:string--></DataCenterServer>
</DataCenterServerInfo>
```

9.2.61 /System/FiberHomeAreaCodeInfo

/System/FiberHomeAreaCodeInfo		General Resource v1.0
GET		Viewer
Description		It is used to get the area code
Query		None
Inbound Data		None
Success Return		ResponseStatus or AreaCodeInfo

PUT		Operator
Description	It is used to set the area code	
Query	None	
Inbound Data	AreaCodeInfo	
Success Return	ResponseStatus	
Notes:		

AreaCodeInfo XML

```
<AreaCodeInfo>
    <AreaCode><!--rw,req,xs:string--></AreaCode>
</AreaCodeInfo>
```

9.2.62 /System/MQTTServerConfig

/System/MQTTServerConfig		General Resource v1.0
GET		Viewer
Description	It is used to get the MQTT server config	
Query	None	
Inbound Data	None	
Success Return	ResponseStatus or MQTTServerConfig	
PUT		Operator
Description	It is used to set the MQTT server config	
Query	None	
Inbound Data	MQTTServerConfig	
Success Return	ResponseStatus	
Notes:		

MQTTServerConfig XML

```
<MQTTServerConfig>
    <Enable><!--rw,xs:boolean--></Enable>
    <DeviceID><!--rw,xs:string,the max length is 64--></DeviceID>
<ServerAddress><!--rw,xs:string,domain or ip,the max length is 128--></ServerAddress>
<ServerPort><!--rw,xs:integer--></ServerPort>
<Direction><!--rw,xs:string,"none,enter,exit"--></Direction>
<ServerUserName><!--rw,xs:string,the max length is 64--></ServerUserName>
<ServerPassword><!--rw,xs:string,the max length is 64--></ServerPassword>
<ConnectStatus><!--ro,xs:string,"init,success,error_userorpassword,error_id_conflict,error_network_exception,unknown"--></ConnectStatus>
    <MainTopic><!--rw,xs:string,the max length is 64--></MainTopic>
    <OperateDeviceTopic><!--ro,xs:string,the max length is 128--></OperateDeviceTopic>
    <PublicEventTopic><!--ro,xs:string,the max length is 128--></PublicEventTopic>
</MQTTServerConfig>
```

9.2.63 /System/AIWorkMode

/System/AIWorkMode		General Resource v1.0
GET		Viewer
Description		It is used to get the AI algorithm work mode
Query		None
Inbound Data		None
Success Return		ResponseStatus or AIWorkMode
PUT		Operator
Description		It is used to set the AI algorithm work mode
Query		None
Inbound Data		AIWorkMode
Success Return		ResponseStatus
Notes:		
AIWorkMode XML		
<pre><AIWorkMode> <WorkMode><!--req, xs:string "PeopleMode","FaceMode"--></WorkMode> </AIWorkMode></pre>		

9.3 /Security

9.3.1 /Security/UserAuth

/Security/UserAuth		General Resource v1.0
PUT		Viewer
Description		It is used to verify user information
Query		None
Inbound Data		None
Success Return		ResponseStatus
Notes:		
You not need to set the http User authentication information.		
Example:		
URL: http://192.168.1.46/Security/UserAuth Data format: PUT /Security/UserAuth HTTP/1.1\r\n Connection:close\r\n Host: 192.168.0.46\r\n Content-Length:\r\n \r\n Username=admin&Password=admin		

9.3.2 /Security/ModifyPasswordByTempSecretKey

/Security/ModifyPasswordByTempSecretKey	General Resource v1.0
PUT	Operator
Description	It is used to modify password by temp secret key.
Query	None
Inbound Data	None
Success Return	ResponseStatus

9.3.3 /Security/BaseConfig

/Security/BaseConfig	General Resource v1.0
GET	Viewer
Description	It is used to get the security config
Query	None
Inbound Data	None
Success Return	ResponseStatus or BaseConfig
PUT	Operator
Description	It is used to set the security config
Query	None
Inbound Data	BaseConfig
Success Return	ResponseStatus
Notes:	

BaseConfig XML

```
<BaseConfig>
    <WhiteList><!--xs:boolean--></WhiteList>
</BaseConfig>
```

9.3.4 /Security/WhiteLists

/Security/WhiteLists	General Resource v1.0
GET	Viewer
Description	It is used to get white list
Query	None
Inbound Data	None
Success Return	ResponseStatus or WhiteLists
Notes:	

WhiteLists XML

```
<WhiteLists>
```

```

<WhiteList>
    <ID><!--xs:integer,the value is unique--></ID>
    <Mode><!--req,xs:string,"IP","IPRange" --></Mode>
    //Mode:IP
    <IP><!--xs:string, --></IP>
    //Mode"IPRange
    <IPBegin><!--xs:string, --></IPBegin>
    <IPEnd><!--xs:string, --></IPEnd>
</WhiteList>
</WhiteLists>

```

eg:

```

<WhiteLists>
    <WhiteList>
        <ID>1</ID>
        <Mode>IP</Mode>
        <IP>192.168.0.10</IP>
    </WhiteList>
    <WhiteList>
        <ID>2</ID>
        <Mode>IPRange</Mode>
        <IPBegin>192.168.0.10</IPBegin>
        <IPEnd>192.168.0.20</IPEnd>
    </WhiteList>
</WhiteLists>

```

9.3.5 /Security/WhiteList

/System/WhiteList		General Resource v1.0
GET		Viewer
Description	It is used to get the white list	
Query	None	
Inbound Data	None	
Success Return	WhiteList	
PUT		Operator
Description	It is used to update the white list	
Query	None	
Inbound Data	WhiteList	
Success Return	ResponseStatus	
POST		Operator
Description	It is used to add a item of white list	
Query	None	
Inbound Data	WhiteList	
Success Return	ResponseStatus	

Delete	Operator
Description	It is used to delete the white list
Query	None
Inbound Data	WhiteList
Success Return	ResponseStatus
Notes:	

WhiteList XML

```
<WhiteList>
    <ID><!--xs:integer, the value is unique--></ID>
    <Mode><!--req, xs:string, "IP", "IPRange" --></Mode>
        //Mode: IP
        <IP><!--xs:string, --></IP>
        //Mode: IPRange
        <IPBegin><!--xs:string, --></IPBegin>
        <IPEnd><!--xs:string, --></IPEnd>
</WhiteList>
```

eg input:

```
<WhiteList>
    <ID>1</ID>
</WhiteList>
```

Eg 1:

```
<WhiteList>
    <ID>1</ID>
    <Mode>IP</Mode>
    <IP>192.168.0.10</IP>
</WhiteList>
```

Eg 2:

```
<WhiteList>
    <ID>1</ID>
    <Mode>IPRange</Mode>
    <IPBegin>192.168.0.10</IPBegin>
    <IPEnd>192.168.0.20</IPEnd>
</WhiteList>
```

Delete eg, input:

```
<WhiteList>
    //if has id, then delete the white item by the id specified, otherwise delete all
    <ID>1</ID>
</WhiteList>
```

Add eg, input:

```
<WhiteList>
    //no need
    <ID>2</ID>
    <Mode>IP</Mode>
    <IP>192.168.0.30</IP>
```

```

</WhiteList>
Update eg, input:
<WhiteList>
    <ID>2</ID>
    <Mode>IP</Mode>
    <IP>192.168.0.60</IP>
</WhiteList>
Update eg, output:
<WhiteList>
    <ID>2</ID>
    <Mode>IPRange</Mode>
    <IPBegin>192.168.0.30</IPBegin>
    <IPEnd>192.168.0.40</IPEnd>
</WhiteList>

```

9.3.6 /Security/UserPermissionConfigs

/Security/UserPermissionConfigs		General Resource v1.0
GET		Viewer
Description	It is used to get the user permission	
Query	None	
Inbound Data	None	
Success Return	ResponseStatus or UserBasicConfigList	
PUT		Operator
Description	设置安全配置	
Query	None	
Inbound Data	UserBasicConfigList	
Success Return	ResponseStatus	
Notes:		

UserBasicConfigList XML

```

<UserBasicConfigList>
    <UserBasicConfig>
        <UserID><!--rw,req,xs:Intreger --></UserID>
        <Username><!--ro,req,xs:string--></Username>      //No need on put
        <UserType><!--rw,req,xs:string"Administrator","DefaultUser","Normal","OnvifUser","OnvifOperator"--></UserType>
        <RemoteConfigPermission><!--rw,req,xs:boolean --></RemoteConfigPermission>
        <RealtimeStreamPermission><!--rw,req,xs:string"1","0"--></RealtimeStreamPermission>
        <VoiceTalkPermission><!--rw,req,xs:boolean--></VoiceTalkPermission>
        <PTZControlPermission><!--rw,req,xs:string"1","0"--></PTZControlPermission>
        <RemotePlaybackPermission><!--rw,req,xs:string"1","0"--></RemotePlaybackPermission>
    </UserBasicConfig>

```

```

...
</UserConfigList>

```

9.3.7 /Security/UserPermissionConfig/UserID

/Security/UserPermissionConfig/UserID		General Resource v1.0
GET		Viewer
Description		It is used to get the user permission
Query		None
Inbound Data		None
Success Return		ResponseStatus or UserBasicConfig
PUT		Operator
Description		It is used to set the user permission
Query		None
Inbound Data		UserBasicConfig
Success Return		ResponseStatus
Notes:		
UserID start from 1		

UserBasicConfig XML

```

<UserBasicConfig>
    <UserID><!--rw,req,xs:integer --></UserID>      //No need on put
    <Username><!--ro,req,xs:string--></Username>      //No need on put
    <UserType><!--rw,req,xs:string"Administrator","DefaultUser","Normal","OnvifUser","OnvifOperator"--></UserType>
        <RemoteConfigPermission><!--rw,req,xs:boolean --></RemoteConfigPermission>
        <RealtimeStreamPermission><!--rw,req,xs:string"1","0"--></RealtimeStreamPermission>
        <VoiceTalkPermission><!--rw,req,xs:boolean--></VoiceTalkPermission>
        <PTZControlPermission><!--rw,req,xs:string"1","0"--></PTZControlPermission>
        <RemotePlaybackPermission><!--rw,req,xs:string"1","0"--></RemotePlaybackPermission>
    </UserBasicConfig>

```

9.3.8 /Security/UserPermissionConfigByUsername

/Security/UserPermissionConfigByUsername		General Resource v1.0
GET		Viewer
Description		It is used to get the user permission
Query		None
Inbound Data		Username=xxx
Success Return		ResponseStatus or UserBasicConfig
PUT		Operator

Description	It is used to set the user permission
Query	None
Inbound Data	UserBasicConfig
Success Return	ResponseStatus
Notes:	
URLeg:	
http://xxx.xxx.xxx.xxx/Security/UserPermissionConfigByUsername?Username=xxx	

UserBasicConfig XML

```
<UserBasicConfig>
    <UserID><!--rw,req,xs:Intreger --></UserID>      //No need on put
    <Username><!--ro,req,xs:string--></Username>      // No need on put
    <UserType><!--rw,req,xs:string"Administrator","DefaultUser","Normal","OnvifUser","OnvifOperator"--></UserType>
    <RemoteConfigPermission><!--rw,req,xs:boolean --></RemoteConfigPermission>
    <RealtimeStreamPermission><!--rw,req,xs:string"1","0"--></RealtimeStreamPermission>
    <VoiceTalkPermission><!--rw,req,xs:boolean--></VoiceTalkPermission>
    <PTZControlPermission><!--rw,req,xs:string"1","0"--></PTZControlPermission>
    <RemotePlaybackPermission><!--rw,req,xs:string"1","0"--></RemotePlaybackPermission>
</UserBasicConfig>
```

9.4 /Streams

/Streams	General Resource v1.0
GET	Viewer
Description	It is used to get the properties of streaming channels for the device.
Query	None
Inbound Data	None
Success Return	ResponseStatus or StreamList
PUT	Operator
Description	It is used to update the properties of streaming channels for the device.
Query	None
Inbound Data	StreamList
Success Return	ResponseStatus
Notes:	

Streams XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<StreamList>
    <Stream><!-- opt -->
```

```
</StreamList>
```

9.4.1 /Streams/ChannelID

/Streams/ChannelID		General Resource v1.0
GET		Viewer
Description		It is used to get the properties of a particular streaming channel for the device.
Query		None
Inbound Data		None
Success Return		ResponseStatus or Stream
PUT		Viewer
Description		It is used to set the properties of a particular streaming channel for the device.
Query		None
Inbound Data		Stream
Success Return		ResponseStatus
Notes:		
The ChannelID in URI shows the channel number. The <ChannelID> is start at 1.		

Stream XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<Stream>
    <ID><!--opt, xs:integer--></ID>
    <StreamCapability><!--opt-->
    <StreamConfigList>
        <StreamConfig><!--opt-->
    </StreamConfigList>
</Stream>
```

9.4.1.1 /Streams/ChannelID/ReceiveData

/Streams/ChannelID/StreamID/ReceiveData		General Resource v1.0
GET		Viewer
Description		It is used to get the MJPEG stream for the device.
Query		None
Inbound Data		None
Success Return		ResponseStatus or Stream data
Notes:		
The channelID in the URI shows the channel number, The <ChannelID> is start at 1.defaultly		

the first substream is opened.

9.4.1.2/Streams/ChannelID/CapabilityV2

/Streams/ChannelID/CapabilityV2		General Resource v1.0		
GET		Viewer		
Description	It is used to get the Stream Capability of a particular streaming channel for the device.			
Query	None			
Inbound Data	None			
Success Return	ResponseStatus or StreamCapability			
Notes:				
<p>The <ChannelID> in the URI shows the channel number, The <ChannelID> is start at 1.</p> <p>The <ID> under the <StreamCapability> represents the channel ID.</p> <p>The <ID> under the <MainStreamCapability> indicates the main stream of ID the device supported</p> <p>The <ID> under the <MainStreamCapability>,<SecondStreamCapabilityList>, indicates the sub stream of ID the device supported Resolution and maximum frame rate supported by the main stream is not the same, but different main stream supports different sub-stream: Understanding the structure of the flow capacity, It is not the same, that is to say the resolution and maximum frame rate of the sub-stream by the resolution of the main stream to the decision. Therefore, the design follows the structure to represent the encoding capabilities of the device. For example, a device supports main stream 720P / 25fps and 1080P / 25fps, while the 720P erupted stream supported resolution and maximum frame rate is 360p / 20fps, 1080p stream erupted in support of the resolution and maximum frame rate is D1 / 25fps.</p> <p><u><CodecCapabilityList></u> describe which codec type support such as H.264,H265,MJPEG,H.265+,H264+.</p>				

StreamCapability XML Block

```

<?xml version="1.0" encoding="utf-8"?>
<StreamCapability>
    <ID><!--req, xs:integer, --></ID>
    <MainStreamCapabilityList><!--ro,req-->
        <MainStreamCapability><!--ro,opt-->
            <ID><!--req, xs:integer, --></ID>
            <ResolutionWidth><!--ro,opt, xs:integer--></ResolutionWidth>
            <ResolutionHeight><!--ro,opt, xs:integer--></ResolutionHeight>
            <MaxFrameRate><!--ro,req, xs:integer, --></MaxFrameRate>
            <SubStreamCapabilityList><!--ro,req-->
                <StreamCapability><!--ro,opt-->
                    <ID><!--ro,req, xs:integer--></ID>
                    <ResolutionWidth><!--ro,opt, xs:integer--></ResolutionWidth>

```

```

        <ResolutionHeighth><!--ro,opt,xs:integer--></ResolutionHeighth>
        <MaxFrameRate><!--ro,req,xs:integer,--></MaxFrameRate>
    </StreamCapability>
</SubStreamCapabilityList>
<SecondStreamCapabilityList><!--ro,req-->
    <StreamCapability><!--ro,opt-->
        <ID><!--ro,req,xs:integer--></ID>
        <ResolutionWidth><!--ro,opt,xs:integer--></ResolutionWidth>
        <ResolutionHeighth><!--ro,opt,xs:integer--></ResolutionHeighth>
        <MaxFrameRate><!--ro,req,xs:integer,--></MaxFrameRate>
    </StreamCapability>
</SecondStreamCapabilityList>
</MainStreamCapability>
<CodecCapabilityList Version="1.0">
    <streamCodecCapability Version="1.0">
        <ID><!--ro,req,xs:integer--></ID>
        <Codec><!--req,xs:string,"H.264,H.265,MJPEG,H.265+,H.264+"--></Codec>
    </streamCodecCapability>
</CodecCapabilityList>
</MainStreamCapabilityList>
</StreamCapability>

```

9.4.1.3/Streams/ChannelID/StreamID

/Streams/ChannelID/StreamID		General Resource v1.0
GET		Viewer
Description	It is used to get the StreamID Streaming properties of a particular streaming channel for the device.	
Query		
Inbound Data	None	
Success Return		
PUT		Viewer
Description	It is used to set the StreamID Streaming properties of a particular streaming channel for the device.	
Query		
Inbound Data	StreamConfig	
Success Return		
Notes:	<p>The <ChannelID> in the URI shows the channel number, The <ChannelID> is start at 1.</p> <p>The <StreamID> represents stream type, generally "1" represents the main stream, "2" means</p>	

"the first sub-Stream", "3" means "the second sub-stream", and so on.

The <FrameRate> field indicates the frame rate, if the value is 25500, which indicates that the frame rate is a full frame rate.

The <FixedQuality> field represents the quality, the smaller the value, the higher the quality.

If <StreamID> corresponds to a sub-stream, then <StreamType>, <VideoCodecType>, <FixedQuality> is invalid, <BitrateType> is always a CBR (constant bit rate).

<keyFrameInterval> is not supported.

Resolution and frame rate ranges refer to the <StreamCapability>

If <StreamID> corresponds to a snapshot stream, then <StreamType>, <VideoCodecType>, <FixedQuality> is invalid, <BitrateType> is always a CBR (constant bit rate).

StreamConfig XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<StreamConfig><!--opt-->
    <ID><!--req, xs:integer--><ID>
        <StreamType><!--req, xs:string, "Video, VideoAndAudio"--></StreamType>

        <VideoCodecType><!--ro,opt,xs:string, "H.264, H.265, MJPEG, H.265+, H.264+"--></VideoCodecTyp
e>
            <ResolutionWidth><!--req, xs:integer--></ResolutionWidth>
            <ResolutionHeighth><!--req, xs:integer--></ResolutionHeighth>
            <FrameRate><!--req, xs:integer, maximum frame rate x100--></FrameRate>
            <BitrateType><!--req, xs:string, "CBR, VBR, SmartAVC"--></BitrateType>
            <Bitrate><!--opt, xs:integer, in kbps--></Bitrate>
            <FixedQuality><!--req, xs:integer, "0-5"--></FixedQuality>
            <keyFrameInterval><!-- opt, xs:integer--> </keyFrameInterval>
            <Transport><!--opt-->
                <RTSPURI><!--ro, req, xs:string--></RTSPURI>
            </Transport>
        </StreamConfig>
```

9.4.1.3.1 /Streams/ChannelID/StreamID/Transport

/Streams/ChannelID/StreamID/Transport		General Resource v1.0
GET		Viewer
Description	It is used to get the RTSP Address for the device.	
Query	None	
Inbound Data	None	
Success Return	ResponseStatus or Transport	
Notes:		

<p>The <ChannelID> in the URI shows the channel number, The <ChannelID> is start at 1.</p> <p>The <StreamID> represents stream type, generally "1" represents the main stream, "2" means "the first sub-Stream", and so on.</p> <p>The <RTSPURI> field indicates the address which is access to the stream by the RTSP Protocol.</p>
--

Stream Transport XML Block

<pre><?xml version="1.0" encoding="utf-8"?> <Transport> <RTSPURI><!--ro,req,xs:string--></RTSPURI> </Transport></pre>

9.4.1.3.2 /Streams/ChannelID/StreamID/ReceiveData

/Streams/ChannelID/StreamID/ReceiveData		General Resource v1.0	
GET		Viewer	
Description	It is used to get the MJPEG stream for the device.		
Query		None	
Inbound Data		None	
Success Return		ResponseStatus or Stream Data	
Notes:			
<p>The <ChannelID> in the URI shows the channel number, The <ChannelID> is start at 1.</p> <p>The <StreamID> represents stream type, generally "1" represents the main stream, "2" means "the first sub-Stream", and so on.</p>			

9.4.2 /Streams/AudioStream

/Streams/AudioStream		General Resource v1.0
GET		Viewer
Description	It is used to get audio stream configuration.	
Query		None
Inbound Data		None
Success Return		ResponseStatus or AudioStream
PUT		Viewer
Description	It is used to set audio stream configuration.	
Query		None
Inbound Data		AudioStream
Success Return		ResponseStatus
Notes:		

Audio XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<AudioStream>
    <AudioInMethod><!—rw,xs:string,"microphone,line-in"--></AudioInMethod>
    <AudioInCodec><!—rw,xs:string,"G.711U"--></AudioInCodec>
    <AudioInVolume><!—rw,xs:integer,"0--100"--></AudioInVolume>
    <AudioOutVolume><!—rw,xs:integer,"0--100"--></AudioOutVolume>
</AudioStream>
```

9.5 /Snapshot

9.5.1 /Snapshot/ChannelID/RemoteImageCapture

/Snapshot/ChannelID/RemoteImageCapture		General Resource v1.0
GET		Viewer
Description		It is used to get a jpeg picture.
Query		None
Inbound Data		None
Success Return		ResponseStatus or the JPEG picture stream
Notes:		
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1. “ImageFormat” is image Type such as,bmp,jpg and so on,if “ImageFormat” is 1,the picture you capture is the format of bmp, if “ImageFormat” is 2, It is the format of jpg, default is the format of jpg, so ,you should set “ImageFormat” to 2, if you set “ImageFormat” to other value,maybe you will get a result you do not want to see.		
Example: http://192.168.1.46/Snapshot/1/RemoteImageCapture?ImageFormat=2		

9.5.2 /Snapshot/ChannelID/StreamID/RemoteImageCaptur

eV2

/Snapshot/ChannelID/StreamID/RemoteImageCaptureV2		General Resource v1.0
GET		Viewer
Description		It is used to get a jpeg picture.
Query		None
Inbound Data		None
Success Return		ResponseStatus or the JPEG picture stream
Notes:		
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.		

The <StreamID> represents stream type, generally "1" represents the main stream, "2" means "the first sub-Stream", and so on.

"ImageFormat" is image Type such as,bmp,jpg and so on, if you set "ImageFormat" to other value,maybe you will get a result you do not want to see.

Example:

<http://192.168.1.46/Snapshot/1/2/RemoteImageCaptureV2?ImageFormat=bmp|jpg>

9.5.3 /Snapshot/Capability

/Snapshot/Capability	General Resource v1.0
GET	Viewer
Description	It is used to get the picture capability.
Query	None
Inbound Data	None
Success Return	ResponseStatus or SnapshotCapabilityList
Notes:	

SnapshotConfig XML Block

```
<SnapshotCapabilityList><!--ro,req-->
  <SnapshotCapability><!--ro,opt-->
    <ID><!--ro,req,xs:integer--></ID>
    <ResolutionWidth><!--ro,req,xs:integer--></ResolutionWidth>
    <ResolutionHeight><!--ro,req,xs:integer--></ResolutionHeight>
  </SnapshotCapability>
</SnapshotCapabilityList>
```

9.5.4 /Snapshot/Config

/Snapshot/Config	General Resource v1.0
GET	Viewer
Description	It is used to get a Snapshot Config.
Query	None
Inbound Data	None
Success Return	ResponseStatus or SnapshotConfig
PUT	Viewer
Description	It is used to set a Snapshot Config.
Query	None
Inbound Data	SnapshotConfig
Success Return	ResponseStatus

Notes:

SnapshotConfig XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<SnapshotConfig>
    <ResolutionWidth><!--rw,req,xs:integer--></ResolutionWidth>
    <ResolutionHeight><!--rw,req,xs:integer--></ResolutionHeight>
    <Quality><!--rw,req,xs:string,"high,middle,low" --></Quality>
    <SnapshotCount><!--rw,req,xs:integer,"1,2,3" --></SnapshotCount>
    <SnapshotIntervalTime><!--rw,req,xs:integer,in sec,"1,2,3,4,5" -->
    </ SnapshotIntervalTime>
    <StreamType><!--rw,req,xs:string,"main,sub,hdsu" --></StreamType>
</SnapshotConfig>
```

9.6 /Images

/Images		General Resource v1.0
GET		Viewer
Description	It is used to get All Image Configuration for the device.	
Query	None	
Inbound Data	None	
Success Return	ResponseStatus or ImageList	
PUT		Viewer
Description	It is used to set All Image Configuration for the device.	
Query	None	
Inbound Data	ImageList	
Success Return	ResponseStatus	
Notes:		

ImageList XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<ImageList><!--req-->
    <Image><!--opt-->
</ImageList>
```

9.6.1 /Images/ChannelID

/Images/ ChannelID		General Resource v1.0
GET		Viewer
Description		It is used to get All Image Configuration of a particular channel for the device.
Query		None
Inbound Data		None
Success Return		ResponseStatus or Image
PUT		Viewer
Description		It is used to set All Image Configuration of a particular channel for the device.
Query		None
Inbound Data		Image
Success Return		ResponseStatus
Notes:		
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.		

Image XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<Image>
    <ID><!--req,xs:integer--></ID>
    <Scene><!--opt-->
    <Basic/><!--opt-->
    <Color/><!--opt-->
    <Exposure/><!--opt-->
    <WhiteBlance/><!--opt-->
    <IrCutFillter><!--opt-->
        //LDC Advance, range: 0-100
        <LDCAdvance><!--req,xs:integer--></LDCAdvance>
    </IrCutFillter>
</Image>
```

9.6.1.1 /Images/ChannelID/Scene

/Images/ChannelID/Scene		General Resource v1.0
GET		Viewer
Description		It is used to get the scene configuration of a particular channel for the device.
Query		None
Inbound Data		None

Success Return	ResponseStatus or Scene
PUT	Viewer
Description	It is used to set the scene configuration of a particular channel for the device.
Query	None
Inbound Data	Scene
Success Return	ResponseStatus
Notes:	The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.

Scene XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<Scene>
    <Support><!—ro,req,xs:boolean></Support>
    <Mode><!—req,xs:string,"standard,soft,vivid,custom"></Mode>
    <LDC><!—req,xs:boolean ></LDC>
    <Fog><!—req,xs:boolean ></Fog>
    <FogValue><!—rw,req,xs:integer,0-100--></FogValue>
    <Corridor><!—req,xs:boolean ></Corridor>
    <Gamma><!—rw,req,xs:integer,0-100--></Gamma>
</Scene>
```

9.6.1.2/Images/ChannelID/Basic

/Images/ChannelID/Basic	General Resource v1.0
GET	Viewer
Description	It is used to get the basic configuration of a particular channel for the device.
Query	None
Inbound Data	None
Success Return	ResponseStatus or Basic
PUT	Viewer
Description	It is used to set the basic configuration of a particular channel for the device.
Query	None
Inbound Data	Basic
Success Return	ResponseStatus
Notes:	

Basic XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<Basic>
    <powerLineFrequencyMode><!--req,xs:string,50HZ,60HZ --></ powerLineFrequencyMode>
    <NoiseReduce><!--req,xs:string,"close,weak,normal,strong"--></NoiseReduce>
    <BLC><!--req,xs:string,"close,open,notsupport"--></BLC>
    <WDR><!--req,xs:string, "close,weak,normal,strong"--></WDR>
    <FlipMode>
        <!--req,xs:string,"close,leftright,updown,center,notsupport"-->
    </FlipMode>
</Basic>
```

9.6.1.3/Images/ChannelID/Color

/Images/ChannelID/Color		General Resource v1.0
GET		Viewer
Description		It is used to get the color configuration of a particular channel for the device.
Query		None
Inbound Data		None
Success Return		ResponseStatus or Color
PUT		Viewer
Description		It is used to set the color configuration of a particular channel for the device.
Query		None
Inbound Data		Color
Success Return		ResponseStatus
Notes:		
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.		
<Mode> shows automatically adjust the brightness. When the mode is “auto”, setting the value of the <Brightness> field are unsuccesed, when the mode is “manual”, setting the value of the <Brightness> field is valid. For unsupported devices, setting the value of the <Brightness> field is always valid.		

Color XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<Color>
    <Mode><!--req,xs:string,"auto,manual,notsupport"--></Mode>
    <Brightness><!--req,xs:integer,0-100--></Bright>
    <Contrast><!--req,xs:integer,0-100--></Contrast>
    <Saturation><!--req,xs:integer,0-100--></Saturation>
    <Hue><!--req,xs:integer,0-100--></Hue>
```

```

<Sharpness><!--req, xs:integer, 0-100--></Sharpness>
</Color>

```

9.6.1.4/Images/ChannelID/Exposure

/Images/ChannelID/Exposure		General Resource v1.0
GET		Viewer
Description		It is used to get the exposure configuration of a particular channel for the device.
Query		None
Inbound Data		None
Success Return		ResponseStatus or Exposure
PUT		Viewer
Description		It is used to set the exposure configuration of a particular channel for the device.
Query		None
Inbound Data		Exposure
Success Return		ResponseStatus
Notes:		
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.		

Exposure XML Block

```

<?xml version="1.0" encoding="utf-8"?>
<Exposure>
    <IrisType><!--req, xs:string, "manual, DC-Iris"--></IrisType>
    <shutter>
        <!--req, xs:string, "auto, 1/1, 1/3, 1/8, 1/12, 1/15, 1/25, 1/30, 1/50, 1/60, 1/100, 1/120,
        1/240, 1/480, 1/960, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000,"-->
    </shutter>
    <Gain><!--req, xs:string, "auto, 6dB, 12dB, 18dB, 24dB, 30dB, 36dB, 42dB" --></Gain>
    <Shuttermode><!--req, xs:string, "auto, manual"--></Shuttermode>
</Exposure>

```

9.6.1.5/Images/ChannelID/WhiteBalance

/Images/ChannelID/WhiteBalance		General Resource v1.0
GET		Viewer
Description		It is used to get the whitebalance configuration of a particular channel for the device.
Query		None

Inbound Data	None
Success Return	ResponseStatus or WhiteBlance
PUT	Viewer
Description	It is used to set the whitebalance configuration of a particular channel for the device.
Query	None
Inbound Data	WhiteBlance
Success Return	ResponseStatus
Notes:	<p>The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.</p> <p>When the <Mode> is “manual”,<GainRed> and <GainBlue> are effective ,otherwise are not effective.</p>

WhiteBlance XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<WhiteBlance>
    <Mode>
        <!--req,xs:string,"auto,incandescent,warm,fluorescent,natural,manual,
        locked"-->
    </ Mode>
    <GainRed><!--dep,xs:integer,0-100--></GainRed>
    <GainBlue><!--dep,xs:integer,0-100--></GainBlue>
</WhiteBlance>
```

9.6.1.6/Images/ChannelID/IrCutFilter

/Images/ChannelID/IrCutFilter		General Resource v1.0
GET		Viewer
Description		It is used to get the IrCutFilter configuration of a particular channel for the device.
Query		None
Inbound Data		None
Success Return		ResponseStatus or IrCutFilter
PUT		Viewer
Description		It is used to set the IrCutFilter configuration of a particular channel for the device.
Query		None
Inbound Data		IrCutFilter
Success Return		ResponseStatus
Notes:		
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.		

When the <Mode> is "time", <StartTime> and <EndTime> are effective, other is not effective. When the <Mode> is "initiative" or "passivity", <Sensitivity> and <SwitchTime> are not effective, other is not effective.

The greater the value of the <Sensitivity>, the more sensitive.

IrCutFilter XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<IrCutFilter>
    <Mode><!--req, xs:string, "initiative, passivity(auto), day, night, time, color, intelligent, variableinfraredlight, variablewhitelight"--></Mode>
        <DayStartTime>
            <!--dep, xs:time, "17:30:08"-->
        </DayStartTime>
        <DayEndTime>
            <!--dep, xs:time, " 17:30:08"-->
        </DayEndTime>
        <Sensitivity><!--dep, xs:integer, 0-100--></Sensitivity>
        <SwitchTime><!--dep, xs:integer, 3s-15s--></SwitchTime>
        <InitiativeSwitchTime><!--dep, xs:integer, 3s-15s--></InitiativeSwitchTime>
        <PassivitySwitchTime><!--dep, xs:integer, 3s-15s--></PassivitySwitchTime>
        <ColorLastTime><!--dep, xs:integer, 3s-15s--></ColorLastTime>
        <IrCutReverse><!--dep, xs:string, notsupport, true, positive--></IrCutReverse>
        <ImageMode><!--dep, xs:string, normal, facenoexposure, licenseplate--></ImageMode>
        <VariableInfraredThreshold>
            <!--dep, xs:integer, 0-100-->
        </VariableInfraredThreshold>
        <VariableWhiteThreshold>
            <!--dep, xs:integer, 0-100-->
        </VariableWhiteThreshold>
        <intelligentWorkmode>
            <!--dep, xs:string, constantly, flicker-->
        </intelligentWorkmode>
        <FlickerTime>
            <!--dep, xs:integer, 5-180S-->
        </FlickerTime>
        <FlickerFrequency>
            <!--dep, xs:integer, 0-100-->
        </FlickerFrequency>
        <FlickerBrightness>
            <!--dep, xs:integer, 0-100-->
        </FlickerBrightness>
        <ColorWorkmode>
            <!--dep, xs:string, custom, auto-->
        </ColorWorkmode>
```

```

<CustomBrightness>
    <!—dep, xs:integer, 0-100 -->
</CustomBrightness>
<CustomStartTime>
    <!—dep, xs:datetime, 20190202T020202 -->
</CustomStartTime>
<CustomStopTime>
    <!—dep, xs:datetime, 20190202T020202 -->
</CustomStopTime>
<VarWhiteControlMode>
    <!—dep, xs:string, "custom", "auto" -->
</VarWhiteControlMode>
<VarWhiteModeStartTime>
    <!—dep, xs:datetime, 20190202T020202 -->
</VarWhiteModeStartTime>
<VarWhiteModeStopTime>
    <!—dep, xs:datetime, 20190202T020202 -->
</VarWhiteModeStopTime>
<VarInfraredWorkMode>
    <!—dep, xs:string, "custom", "auto" -->
</VarInfraredWorkMode>
<VarInfraredBrightness>
    <!—dep, xs:integer, 0-100 -->
</VarInfraredBrightness>
<EnableLight><!--xs:boolean--><EnableLight>
</IrCutFilter>

```

9.7 /Pictures

/Pictures		General Resource v1.0
GET		Viewer
Description	It is used to get all picture configuration for the device.	
Query		None
Inbound Data		None
Success Return		ResponseStatus or PictureList
PUT		Viewer
Description	It is used to set all picture configuration for the device.	
Query		None
Inbound Data		PictureList
Success Return		ResponseStatus
Notes:		

PictureList XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<PictureList>
    <Picture><!--opt-->
</PictureList>
```

9.7.1 /Pictures/ChannelID

/Pictures/ChannelID		General Resource v1.0
GET		Viewer
Description		It is used to get all picture configuration of a particular video input channel for the device.
Query		None
Inbound Data		None
Success Return		ResponseStatus or Picture
PUT		Viewer
Description		It is used to set all picture configuration of a particular video input channel for the device.
Query		None
Inbound Data		Picture
Success Return		ResponseStatus
Notes:		
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.		

Picture XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<Picture>
    <ID><!--req, xs:integer--></ID>
    <OSD/><!--req-->
    <VideoLost/><!--req-->
    <Motion/><!--req-->
    <Mosaic/><!--req-->
</Picture>
```

9.7.1.1/Pictures/ChannelID/OSD

/Pictures/ChannelID/OSD	General Resource v1.0
GET	Viewer

Description	It is used to get the OSD configuration of a particular video input channel for the device.
Query	None
Inbound Data	None
Success Return	ResponseStatus or OSD
PUT	Viewer
Description	It is used to set the OSD configuration of a particular video input channel for the device.
Query	None
Inbound Data	OSD
Success Return	ResponseStatus
Notes:	<p>The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.</p> <p>In setting the OSD configuration, do not let the coordinates of time and the coordinates of name are the same. In addition, the accuracy of the coordinate values of the OSD is 8, that is to say if these numbers are set 8,9,10,11,12,13,14,15 past, when the re-acquired still 8.</p>

OSD XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<OSD>
    <DisplayTime><!--req-->
        <Enable><!--req, xs:boolean--></Enable>
        <PosX><!--req, xs:integer,0-703--></PosX>
        <PosY><!--req, xs:integer,0-575--></PosY>
    </DisplayTime>
    <DisplayName><!--req-->
        <Enable><!--req, xs:boolean--></Enable>
        <PosX><!--req, xs:integer,0-703--></PosX>
        <PosY><!--req, xs:integer,0-575--></PosY>
        <Name><!--req, xs:string, "in Unicode"--></Name>
    </DisplayName>
</OSD>
```

9.7.1.2/Pictures/ChannelID/MultiOSD

/Pictures/ChannelID/MultiOSD	General Resource v1.0
GET	Viewer
Description	It is used to get the MultiOSD configuration of a particular video input channel for the device.
Query	None
Inbound Data	None

Success Return	ResponseStatus or MultiOSD
PUT	Viewer
Description	It is used to set the MultiOSD configuration of a particular video input channel for the device.
Query	None
Inbound Data	MultiOSD
Success Return	ResponseStatus
Notes:	
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.	
In setting the OSD configuration, do not let the coordinates of time and the coordinates of name are the same. In addition, the accuracy of the coordinate values of the OSD is 8, that is to say if these numbers are set 8,9,10,11,12,13,14,15 past, when the re-acquired still 8.	

MultiOSD XML

```
<?xml version="1.0" encoding="utf-8"?>
<MultiOSD>
    <OSD><!--req-->
        <ID><!--req, xs:integer--></ID>
        <Text><!--req, xs:string--></Text>
        <x><!--req, xs:integer,0-703--></x>
        <y><!--req, xs:integer,0-575--></y>
    </OSD>
    ...
    <Resolution>
        <Show><!--req, xs:boolean "true", "false"--></Show>
        <x><!--req, xs:integer,0-703--></x>
        <y><!--req, xs:integer,0-575--></y>
    </Resolution>
    <Bitrate>
        <Show><!--req, xs:boolean "true", "false"--></Show>
        <x><!--req, xs:integer,0-703--></x>
        <y><!--req, xs:integer,0-575--></y>
    </Bitrate>
</MultiOSD>
```

9.7.1.3/Pictures/ChannelID/MultiOSDV2

/Pictures/ChannelID/MultiOSDV2	General Resource v1.0
GET	Viewer
Description	It is used to get the MultiOSDV2 configuration of a particular video input channel for the device.
Query	None

Inbound Data	None
Success Return	ResponseStatus or MultiLineOSD
PUT	Viewer
Description	It is used to set the MultiOSDV2 configuration of a particular video input channel for the device.
Query	None
Inbound Data	MultiLineOSD
Success Return	ResponseStatus
Notes:	
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.	
In setting the OSD configuration, do not let the coordinates of time and the coordinates of name are the same. In addition, the accuracy of the coordinate values of the OSD is 8, that is to say if these numbers are set 8,9,10,11,12,13,14,15 past, when the re-acquired still 8.	

MultiLineOSD XML

```
<?xml version="1.0" encoding="utf-8"?>
<MultiLineOSD>
    <DisplayTime><!--req-->
        <Enable><!--req, xs:boolean--></Enable>
        <PosX><!--req, xs:integer, 0-703--></PosX>
        <PosY><!--req, xs:integer, 0-575--></PosY>
    </DisplayTime>
    <OSD><!--req-->
        <ID><!--req, xs:integer--></ID>
        <Text><!--req, xs:string--></Text>
        <x><!--req, xs:integer, 0-703--></x>
        <y><!--req, xs:integer, 0-575--></y>
    </OSD>
    ...
</MultiLineOSD>
```

9.7.1.4/Pictures/ChannelID/VideoLost

/Pictures/ChannelID/VideoLost	General Resource v1.0
GET	Viewer
Description	It is used to get the Video Lost configuration of a particular video input channel for the device.
Query	None
Inbound Data	None
Success Return	ResponseStatus or VideoLost
PUT	Viewer

Description	It is used to set the VideoLost configuration of a particular video input channel for the device.
Query	None
Inbound Data	VideoLost
Success Return	ResponseStatus
Notes:	
<p>The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.</p> <p>For video loss, some devices are supported, some devices are not supported, For non-supported devices, though it can get some configurations, in fact, it does not make sense</p>	

VideoLost XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<VideoLost>
    <Enable><!--req, xs:boolean--></Enable>
    <Trigger><!--req-->
    <Schedule><!--req-->
</VideoLost>
```

9.7.1.4.1 /Pictures/ChannelID/VideoLost/Trigger

/Pictures/ChannelID/VideoLost/Trigger		General Resource v1.0
GET		Viewer
Description		It is used to get the Video Lost Trigger configuration of a particular video input channel for the device.
Query		None
Inbound Data		None
Success Return		ResponseStatus or Trigger
PUT		Viewer
Description		It is used to set the Video Lost Trigger configuration of a particular video input channel for the device.
Query		None
Inbound Data		Trigger
Success Return		ResponseStatus
Notes:		
<p>The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.</p> <p>The format of <AlarmOutMask>,<SnapshotMask>,<RecordMask> is similar to “11111111” or “00000000”, Each bit represents whether a channel is linkage or not, NO.1 means linkage, NO.0 means not linkage, for example, the string “11111111” Represents that the device is 8 channels, from left to right, represent channel 1,channel 2,channel 3..... and so on.</p>		

For single-channel device, <AlarmOutMask>, <SnapshotMask>, <RecordMask>, <PTZActionList> is not effective .

VideoLost Trigger XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<Trigger>
    <NotifyAMS>
        <Enable><!--req, xs:boolean--></Enable>
    </NotifyAMS>
    <BeepAlert>
        <Enable><!--req, xs:boolean--></Enable>
    </BeepAlert>
    <FullScreen>
        <Enable><!--req, xs:boolean--></Enable>
    </FullScreen>
    <Mail>
        <Enable><!--req, xs:boolean--></Enable>
    </Mail>
    <AlarmOut>
        <Enable><!--req, xs:boolean--></Enable>
        <AlarmOutMask>
            <!--req, xs:string, "1111111111111111"-->
        </AlarmOutMask>
    </AlarmOut>
    <Snapshot>
        <Enable><!--req, xs:boolean--></Enable>
        <SnapshotMask>
            <!--req, xs:string, "1111111111111111"-->
        </SnapshotMask>
    </Snapshot>
    <Record>
        <Enable><!--req, xs:boolean--></Enable>
        <RecordMask>
            <!--req, xs:string, "1111111111111111"-->
        </RecordMask>
    </Record>
    <PTZ>
        <Enable><!--req, xs:boolean--></Enable>
        <PTZActionList>
            <PTZAction>
                <ChannelID><req, xs:integer></ChannelID>
                <ActionName><!-- req, xs:string, "none, preset, pattern, patrol" --></ActionName>
                <ActionNum><!--req, xs:integer, depend on <ActionName>--></ActionNum>
            </PTZAction>
        </PTZActionList>
    </PTZ>
</Trigger>
```

```
</PTZAction>  
</PTZActionList>  
</PTZ>  
</Trigger>
```

9.7.1.4.2 /Pictures/ChannelID/VideoLost/Schedule

VideoLost Schedule XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<Schedule>
    <AllDay><!--req, xs:Boolean--></AllDay>
    <TimeBlock>
        <Block_0><!req, xs:string></Block_0>
        <Block_1><!req, xs:string></Block_1>
        <Block_2><!req, xs:string></Block_2>
        <Block_3><!req, xs:string></Block_3>
```

```

<Block_4><!req,xs:string></Block_4>
<Block_5><!req,xs:string></Block_5>
<Block_6><!req,xs:string></Block_6>
<TimeBlock>
</Schedule>

```

9.7.1.5/Pictures/ChannelID/Motion

/Pictures/ChannelID/Motion		General Resource v1.0
GET		Viewer
Description		It is used to get the motion configuration of a particular video input channel for the device.
Query		None
Inbound Data		None
Success Return		ResponseStatus or Motion
PUT		Viewer
Description		It is used to set the motion configuration of a particular video input channel for the device.
Query		None
Inbound Data		Motion
Success Return		ResponseStatus
Notes:		
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.		
<Senstive> Some versions support for sensitivity of Highest, Higher, high,middle,low,Lower and lowest,Some versions only support for sensitivity of high,middle,low.		

Motion XML Block

```

<?xml version="1.0" encoding="utf-8"?>
<Motion>
    <Enable><!--req,xs:boolean--></Enable>
    <Senstive><!--req,xs:string,"lowest,lower,low,middle,high,higher,highest"--></Senstive>
    <Trigger><!--opt-->
    <Schedule><!--opt-->
    <MotionRegionList><!--opt-->
</Motion>

```

9.7.1.5.1 /Pictures/ChannelID/Motion/Trigger

/Pictures/ChannelID/Motion/Trigger		General Resource v1.0
GET		Viewer
Description		It is used to get the motion trigger

	configuration of a particular video input channel for the device.
Query	None
Inbound Data	None
Success Return	ResponseStatus or Trigger
PUT	Viewer
Description	It is used to set the motion trigger configuration of a particular video input channel for the device
Query	None
Inbound Data	Trigger
Success Return	ResponseStatus
Notes:	<p>The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.</p> <p>The format of <AlarmOutMask>,<SnapshotMask>,<RecordMask> is similar to “11111111” or “00000000”, each bit represents whether a channel is linkage or not, 1 means linkage,0 means not linkage, for example, the string “11111111” represents that the device is 8 channels, from left to right, represent channel 1,channel 2,channel 3..... and so on.</p> <p>For single-channel device, <AlarmOutMask>, <SnapshotMask>, <RecordMask> and<PTZActionList> are not effective .</p>

Motion Trigger XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<Trigger>
    <NotifyAMS>
        <Enable><!--req, xs:boolean--></Enable>
    </NotifyAMS>
    <BeepAlert>
        <Enable><!--req, xs:boolean--></Enable>
    </BeepAlert>
    <FullScreen>
        <Enable><!--req, xs:boolean--></Enable>
    </FullScreen>
    <Mail>
        <Enable><!--req, xs:boolean--></Enable>
    </Mail>
    <AlarmOut>
        <Enable><!--req, xs:boolean--></Enable>
        <AlarmOutMask><!--req, xs:string, "11111111111111"--></AlarmOutMask>
    </AlarmOut>
    <Snapshot>
        <Enable><!--req, xs:boolean--></Enable>
        <SnapshotMask><!--req, xs:string, "11111111111111"--></SnapshotMask>
    </Snapshot>
```

```

<Record>
    <Enable><!--req, xs:boolean--></Enable>
    <RecordMask><!--req, xs:string, "1111111111111111"--></RecordMask>
</Record>
<PTZ>
    <Enable><!--req, xs:boolean--></Enable>
    <ptzChannelID> <!--req, xs:string --></ptzChannelID>
    <ActionName><!-- req, xs:string, "none,preset, pattern, patrol" --></ActionName>
    <ActionNum><!--req, xs:integer, depend on <ActionName>--></ActionNum>
</PTZ>
</Trigger>

```

9.7.1.5.2 /Pictures/ChannelID/Motion/Regions

/Pictures/ChannelID/Motion/Regions		General Resource v1.0
GET		Viewer
Description	It is used to get the motion regions configuration of a particular video input channel for the device.	
Query	None	
Inbound Data	None	
Success Return	ResponseStatus or Regions	
PUT		Viewer
Description	It is used to set the motion regions configuration of a particular video input channel for the device.	
Query	None	
Inbound Data	Regions	
Success Return	ResponseStatus	
Notes:		
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.		
Use CGI or Use IE to set the motion detection area, these two approaches are independently of each other.		

Motion Regions XML Block

```

<?xml version="1.0" encoding="utf-8"?>
<MotionRegionList>
    <Region><!--opt-->
        <ID><!--req, xs:integer--></ID>
        <TopLeftX><!--req, xs:integer, 0-703--></TopLeftX>
        <TopLeftY><!--req, xs:integer, 0-575--></TopLeftY>
        <BottomRightX><!--req, xs:integer, 0-703--></BottomRightX>

```

```

<BottomRightY><!--req,xs:integer,0-575--></BottomRightY>
</Region>
</MotionRegionList>

```

9.7.1.5.3 /Pictures/ChannelID/Motion/RegionsV2

/Pictures/ChannelID/Motion/RegionsV2		General Resource v1.0
GET		Viewer
Description	It is used to get the motion regions configuration of a particular video input channel for the device.	
Query	None	
Inbound Data	None	
Success Return	ResponseStatus or MotionRegionListV2	
PUT		Viewer
Description	It is used to set the motion regions configuration of a particular video input channel for the device.	
Query	None	
Inbound Data	MotionRegionListV2	
Success Return	ResponseStatus	
Notes:	The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.	

Motion RegionsV2 XML Block

```

<?xml version="1.0" encoding="utf-8"?>
<MotionRegionListV2>
    <RegionX_0><!--xs:string,"0000000000000000"--></RegionX_0>
    <RegionX_1><!--xs:string, "0000000000000000"--></RegionX_1>
    <RegionX_2><!--xs:string, "0000000000000000"--></RegionX_2>
    <RegionX_3><!--xs:string, "0000000000000000"--></RegionX_3>
    <RegionX_4><!--xs:string, "0000000000000000"--></RegionX_4>
    <RegionX_5><!--xs:string,"0000000000000000"--></RegionX_5>
    <RegionX_6><!--xs:string,"0000000000000000"--></RegionX_6>
    <RegionX_7><!--xs:string,"0000000000000000"--></RegionX_7>
    <RegionX_8><!--xs:string,"0000000000000000"--></RegionX_8>
    <RegionX_9><!--xs:string,"0000000000000000"--></RegionX_9>
    <RegionX_10><!--xs:string,"0000000000000000"--></RegionX_10>
    <RegionX_11><!--xs:string,"0000000000000000"--></RegionX_11>
</MotionRegionListV2>

```

9.7.1.5.4 /Pictures/ChannelID/Motion/Schedule

Motion Schedule XML Block

```
<Schedule>
  <AllDay><!--req, xs:boolean--></AllDay>
  <TimeBlockList>
    <TimeBlock_0><!req, xs:string></TimeBlock_0>
    <TimeBlock_1><!req, xs:string></TimeBlock_1>
    <TimeBlock_2><!req, xs:string></TimeBlock_2>
    <TimeBlock_3><!req, xs:string></TimeBlock_3>
    <TimeBlock_4><!req, xs:string></TimeBlock_4>
    <TimeBlock_5><!req, xs:string></TimeBlock_5>
    <TimeBlock_6><!req, xs:string></TimeBlock_6>
  <TimeBlockList>
</Schedule>
```

9.7.1.5.5 /Pictures/ChannelID/Motion/Notify/URL

/Pictures/ChannelID/Motion/Notify/URL		General Resource v1.0
GET		Viewer
Description		It is used to get the motion URL configuration of a particular video input channel for the device.
Query		None
Inbound Data		None
Success Return		ResponseStatus or URL
PUT		Viewer
Description		It is used to set the motion URL configuration of a particular video input channel for the device.
Query		None
Inbound Data		URL
Success Return		ResponseStatus
Notes:		

Motion URL XML Block

```
<URL>
  <Protocol><!--req, xs:string--></Protocol>
  <Host><!--req, xs:string--></Host>
  <Port><!--req, xs:string--></Port>
  <Path><!--req, xs:string--></Path>
  <Description><!--req, xs:string--></Description>
  <Username><!--req, xs:string--></Username>
  <Password><!--req, xs:string--></Password>
</URL>
```

9.7.1.6 /Pictures/ChannelID/PeopleDetect

/Pictures/ChannelID/PeopleDetect		General Resource v1.0
GET		Viewer
Description		It is used to get the configuration of people detect
Query		None
Inbound Data		None
Success Return		ResponseStatus or PeopleDetect

PUT		Viewer
Description	It is used to set the configuration of people detect	
Query	None	
Inbound Data	PeopleDetect	
Success Return	ResponseStatus	
Notes:	<ChannelID> start with value:1。	

PeopleDetect XML

```

<?xml version="1.0" encoding="UTF-8" ?>
<PeopleDetect Version="1.0">
    <Enable><!--req,xs:boolean--></Enable>
    <Senstive><!--req,xs:string,"low","middle","high"--></Senstive>
    <Track><!--req,xs:boolean--></Track>
    <AIH265Plus><!--req,xs:boolean--></AIH265Plus>
    <AIFace><!--req,xs:boolean--></AIFace>
    <Trigger Version="1.0">
        <NotifyAMS Version="1.0">
            <Enable><!--req,xs:boolean--></Enable>
        </NotifyAMS>
        <BeepAlert Version="1.0">
            <Enable><!--req,xs:boolean--></Enable>
        </BeepAlert>
        <FullScreen Version="1.0">
            <Enable><!--req,xs:boolean--></Enable>
        </FullScreen>
        <Mail Version="1.0">
            <Enable><!--req,xs:boolean--></Enable>
        </Mail>
        <Ftp Version="1.0">
            <Enable><!--req,xs:boolean--></Enable>
        </Ftp>
        <Push Version="1.0">
            <Enable><!--req,xs:boolean--></Enable>
        </Push>
        <AlarmOut Version="1.0">
            <Enable><!--req,xs:boolean--></Enable>
            <AlarmOutMask><!--req,xs:integer--></ AlarmOutMask >
        </AlarmOut>
        <Snapshot Version="1.0">
            <Enable><!--req,xs:boolean--></Enable>
            <SnapshotMask><!--req,xs:integer--></SnapshotMask>
        </Snapshot>
        <Record Version="1.0">
    
```


9.7.1.7 /Pictures/ChannelID/PeopleDetect/Ability

/Pictures/ChannelID/PeopleDetect/Ability		General Resource v1.0
GET		Viewer
Description		It is used to get the ability of people detect
Query		None
Inbound Data		None
Success Return		ResponseStatus or PeopleAbility

PeopleAbility XML

```
<?xml version="1.0" encoding="utf-8"?>
<PeopleAbility>
    <isSupportPeople><!--req, xs:boolean--></isSupportPeople>
    <TrackBox>
        <IsSupportMainStream><!--req, xs:boolean--></IsSupportMainStream>
        <IsSupportSubStream><!--req, xs:boolean--></IsSupportSubStream>
        <IsSupportSecSubStream><!--req, xs:boolean--></IsSupportSecSubStream>
    </TrackBox>
</PeopleAbility>
```

9.7.1.8 /Pictures/ChannelID/FaceDetect

/Pictures/ChannelID/FaceDetect		General Resource v1.0
GET		Viewer
Description		It is used to get the configuration of face detect
Query		None
Inbound Data		None
Success Return		ResponseStatus or FaceDetect
PUT		Viewer
Description		It is used to set the configuration of face detect
Query		None
Inbound Data		FaceDetect
Success Return		ResponseStatus
Notes:		
<ChannelID> start with value:1。		

FaceDetect XML

```
<?xml version="1.0" encoding="UTF-8" ?>
<FaceDetect Version="1.0">
    <Enable><!--req, xs:boolean--></Enable>
    <EnableOverlay><!--req, xs:boolean--></EnableOverlay>
    <Senstive><!--req, xs:Intger--></Senstive>
```

```
<Trigger Version="1.0">
  <NotifyAMS Version="1.0">
    <Enable><!--req, xs:boolean--></Enable>
  </NotifyAMS>
  <BeepAlert Version="1.0">
    <Enable><!--req, xs:boolean--></Enable>
  </BeepAlert>
  <FullScreen Version="1.0">
    <Enable><!--req, xs:boolean--></Enable>
  </FullScreen>
  <Mail Version="1.0">
    <Enable><!--req, xs:boolean--></Enable>
  </Mail>
  <Ftp Version="1.0">
    <Enable><!--req, xs:boolean--></Enable>
  </Ftp>
  <Push Version="1.0">
    <Enable><!--req, xs:boolean--></Enable>
  </Push>
  <AlarmOut Version="1.0">
    <Enable><!--req, xs:boolean--></Enable>
    <AlarmOutMask><!--req, xs:integer--></AlarmOutMask>
  </AlarmOut>
  <Snapshot Version="1.0">
    <Enable><!--req, xs:boolean--></Enable>
    <SnapshotMask><!--req, xs:integer--></SnapshotMask>
  </Snapshot>
  <Record Version="1.0">
    <Enable><!--req, xs:boolean--></Enable>
    <RecordMask><!--req, xs:integer--></RecordMask>
  </Record>
  <PTZ Version="1.0">
    <Enable><!--req, xs:boolean--></Enable>
    <PTZActionList Version="1.0">
      <PTZAction Version="1.0">
        <ChannelID><!--req, xs:integer--></ChannelID>
        <ActionName><!--req, xs:string--></ActionName>
        <ActionNum><!--req, xs:integer--></ActionNum>
      </PTZAction>
    </PTZActionList>
  </PTZ>
  <FaceMask Version="1.0">
    <Enable><!--req, xs:boolean--></Enable>
  </FaceMask>
```

9.7.1.9 /Pictures/ChannelID/Mosaic

/Pictures/ChannelID/Mosaic		General Resource v1.0
GET		Viewer
Description	It is used to get the mosaic video input configuration of a particular video input channel for the device.	
Query	None	
Inbound Data	None	
Success Return	ResponseStatus or Mosaic	
PUT		Viewer
Description	It is used to set the mosaic video input configuration of a particular video input channel for the device.	
Query	None	
Inbound Data	Mosaic	
Success Return	ResponseStatus	
Notes:	The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.	

Mosaic XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<Mosaic>
    <Enable><!--req,xs:boolean--></Enable>
    <MosaicRegionList>
        <Region><!--opt-->
            <ID><!--req,xs:integer--></ID>
            <TopLeftX><!--req,xs:integer,0-703--></TopLeftX>
            <TopLeftY><!--req,xs:integer,0-575--></TopLeftY>
            <BottomRightX><!--req,xs:integer,0-703--></BottomRightX>
            <BottomRightY><!--req,xs:integer,0-575--></BottomRightY>
        </Region>
    </MosaicRegionList>
</Mosaic>
```

9.7.1.10 /Pictures/ChannalID/LightFillingMode

/Pictures/ChannalID/LightFillingMode		General Resource v1.0
GET		Viewer
Description		It is used to get the LightFillingMode
Query		None
Inbound Data		None
Success Return		ResponseStatus or Pictures
PUT		Viewer
Description		It is used to set the LightFillingMode
Query		None
Inbound Data		Pictures
Success Return		ResponseStatus
Notes:		
The ChannelID start from 1.		

Pictures Get XML

```
<?xml version="1.0" encoding="utf-8"?>
<Pictures>
    <ChannelID><!--ro,req,xs:interger--></ChannelID>
    <LightFillingMode><!--ro,req,xs:string:"PowerSaving","Warning","AlwayLight"--></LightFillin
gMode >
</Pictures>
```

Pictures Put XML

```
<?xml version="1.0" encoding="utf-8"?>
<Pictures>
    <LightFillingMode><!--ro,req,xs:string:"PowerSaving","Warning","AlwayLight"--></LightFillin
gMode >
```

```

gMode >
</Pictures>

```

9.7.1.11/Pictures/ChannalID/TraversePlaneDetect

/Pictures/ChannelID/TraversePlaneDetect		General Resource v1.0
GET		Viewer
Description	It is used to get the config of traverse plane detect	
Query	None	
Inbound Data	None	
Success Return	ResponseStatus or TraversePlaneDetect	
PUT		Operator
Description	It is used to get the config of traverse plane detect	
Query	None	
Inbound Data	TraversePlaneDetect	
Success Return	ResponseStatus	
Notes:		
ChannelID start from 1.		
This URL only support a part of device.		

TraversePlaneDetect XML

```

<?xml version="1.0" encoding="utf-8"?>
<TraversePlaneDetect>
    <Enable><!--ro,req,xs:boolean"true","false"--></Enable>
    <EnableOverlay><!--ro,req,xs:boolean:"true","false"--></EnableOverlay>
<Trigger Version="1.0">
    <NotifyAMS Version="1.0">
        <Enable><!--req,xs:boolean--></Enable>
    </NotifyAMS>
    <BeepAlert Version="1.0">
        <Enable><!--req,xs:boolean--></Enable>
    </BeepAlert>
    <FullScreen Version="1.0">
        <Enable><!--req,xs:boolean--></Enable>
    </FullScreen>
    <Mail Version="1.0">
        <Enable><!--req,xs:boolean--></Enable>
    </Mail>
    <Ftp Version="1.0">
        <Enable><!--req,xs:boolean--></Enable>
    </Ftp>

```

```

<Push Version="1.0">
    <Enable><!--req, xs:boolean--></Enable>
</Push>
<AlarmOut Version="1.0">
    <Enable><!--req, xs:boolean--></Enable>
    <AlarmOutMask><!--req, xs:integer--></AlarmOutMask>
</AlarmOut>
<Snapshot Version="1.0">
    <Enable><!--req, xs:boolean--></Enable>
    <SnapshotMask><!--req, xs:integer--></SnapshotMask>
</Snapshot>
<Record Version="1.0">
    <Enable><!--req, xs:boolean--></Enable>
    <RecordMask><!--req, xs:integer--></RecordMask>
</Record>
<PTZ Version="1.0">
    <Enable><!--req, xs:boolean--></Enable>
    <PTZActionList Version="1.0">
        <PTZAction Version="1.0">
            <ChannelID><!--req, xs:integer--></ChannelID>
            <ActionName><!--req, xs:string--></ActionName>
            <ActionNum><!--req, xs:integer--></ActionNum>
        </PTZAction>
    </PTZActionList>
</PTZ>
<FaceMask Version="1.0">
    <Enable><!--req, xs:boolean--></Enable>
</FaceMask>
</Trigger>
<BeepAlert>
    <Enable><!--ro, req, xs:boolean "true", "false"--></Enable>
</BeepAlert>
<FullScreen>
    <Enable><!--ro, req, xs:boolean "true", "false"--></Enable>
</FullScreen>
</TraversePlaneDetect>

```

9.7.1.12/Pictures/ChannalID/FieldDetect

/Pictures/ChannelID/FieldDetect	General Resource v1.0
GET	Viewer
Description	It is used to get the config of field detect

Query	None
Inbound Data	None
Success Return	ResponseStatus or FieldDetect
PUT	operator
Description	It is used to set the config of field detect
Query	None
Inbound Data	FieldDetect
Success Return	ResponseStatus
Notes:	<p>ChannelID start from 1.</p> <p>This URL only support a part of device.</p>

FieldDetect XML

```
<?xml version="1.0" encoding="utf-8"?>
<FieldDetect>
    <Enable><!--req, xs:boolean "true", "false"--></Enable>
    <EnableOverlay><!--req, xs:boolean "true", "false"--></EnableOverlay>
    <Trigger Version="1.0">
        <NotifyAMS Version="1.0">
            <Enable><!--req, xs:boolean--></Enable>
        </NotifyAMS>
        <BeepAlert Version="1.0">
            <Enable><!--req, xs:boolean--></Enable>
        </BeepAlert>
        <FullScreen Version="1.0">
            <Enable><!--req, xs:boolean--></Enable>
        </FullScreen>
        <Mail Version="1.0">
            <Enable><!--req, xs:boolean--></Enable>
        </Mail>
        <Ftp Version="1.0">
            <Enable><!--req, xs:boolean--></Enable>
        </Ftp>
        <Push Version="1.0">
            <Enable><!--req, xs:boolean--></Enable>
        </Push>
        <AlarmOut Version="1.0">
            <Enable><!--req, xs:boolean--></Enable>
            <AlarmOutMask><!--req, xs:integer--></AlarmOutMask>
        </AlarmOut>
        <Snapshot Version="1.0">
            <Enable><!--req, xs:boolean--></Enable>
            <SnapshotMask><!--req, xs:integer--></SnapshotMask>
        </Snapshot>
        <Record Version="1.0">
```

```
<Enable><!--req,xs:boolean--></Enable>
<RecordMask><!--req,xs:integer--></RecordMask>
</Record>
<PTZ Version="1.0">
    <Enable><!--req,xs:boolean--></Enable>
    <PTZActionList Version="1.0">
        <PTZAction Version="1.0">
            <ChannelID><!--req,xs:integer--></ChannelID>
            <ActionName><!--req,xs:string--></ActionName>
            <ActionNum><!--req,xs:integer--></ActionNum>
        </PTZAction>
    </PTZActionList>
</PTZ>
<FaceMask Version="1.0">
    <Enable><!--req,xs:boolean--></Enable>
</FaceMask>
</Trigger>
<Schedule>
    <AllDay><!--req,xs:boolean--></AllDay>
    <TimeBlockList>
        <TimeBlock_0><!--req,xs:string--></TimeBlock_0>
        <TimeBlock_1><!--req,xs:string--></TimeBlock_1>
        <TimeBlock_2><!--req,xs:string--></TimeBlock_2>
        <TimeBlock_3><!--req,xs:string--></TimeBlock_3>
        <TimeBlock_4><!--req,xs:string--></TimeBlock_4>
        <TimeBlock_5><!--req,xs:string--></TimeBlock_5>
        <TimeBlock_6><!--req,xs:string--></TimeBlock_6>
    <TimeBlockList>
</Schedule>
<FieldList>
    <Field>
        <Senstive><!--req,xs:Intenger--></Senstive>
        <Point>
            <PointX><!--req,xs:Intenger--></PointX>
            <PointY><!--req,xs:Intenger--></PointY>
        <Point>
        ...
    <Field>
    ...
</FieldList>
</FieldDetect>
```

9.7.1.13/Pictures/ChannalID/PIRDetect

/Pictures/ChannalID/PIRDetect		General Resource v1.0
GET		Viewer
Description		It is used to get the config of PIRDetect
Query		None
Inbound Data		None
Success Return		ResponseStatus or PIRDetect
PUT		Operator
Description		It is used to set the config of PIRDetect
Query		None
Inbound Data		PIRDetect
Success Return		ResponseStatus
Notes:		
ChannelID start from 1.		
This URL only support a part of device.		

FieldDetect XML

```
<?xml version="1.0" encoding="utf-8"?>
<FieldDetect>
    <Enable><!--req, xs:boolean "true", "false"--></Enable>
    <Senstive><!--req, xs:string--></Senstive>
    <Trigger Version="1.0">
        <NotifyAMS Version="1.0">
            <Enable><!--req, xs:boolean--></Enable>
        </NotifyAMS>
        <BeepAlert Version="1.0">
            <Enable><!--req, xs:boolean--></Enable>
        </BeepAlert>
        <FullScreen Version="1.0">
            <Enable><!--req, xs:boolean--></Enable>
        </FullScreen>
        <Mail Version="1.0">
            <Enable><!--req, xs:boolean--></Enable>
        </Mail>
        <Ftp Version="1.0">
            <Enable><!--req, xs:boolean--></Enable>
        </Ftp>
        <Push Version="1.0">
            <Enable><!--req, xs:boolean--></Enable>
        </Push>
        <AlarmOut Version="1.0">
            <Enable><!--req, xs:boolean--></Enable>
            <AlarmOutMask><!--req, xs:integer--></AlarmOutMask>
        </AlarmOut>
    </Trigger>
</FieldDetect>
```

```
</AlarmOut>
<Snapshot Version="1.0">
    <Enable><!--req,xs:boolean--></Enable>
    <SnapshotMask><!--req,xs:integer--></SnapshotMask>
</Snapshot>
<Record Version="1.0">
    <Enable><!--req,xs:boolean--></Enable>
    <RecordMask><!--req,xs:integer--></RecordMask>
</Record>
<PTZ Version="1.0">
    <Enable><!--req,xs:boolean--></Enable>
    <PTZActionList Version="1.0">
        <PTZAction Version="1.0">
            <ChannelID><!--req,xs:integer--></ChannelID>
            <ActionName><!--req,xs:string--></ActionName>
            <ActionNum><!--req,xs:integer--></ActionNum>
        </PTZAction>
    </PTZActionList>
</PTZ>
<FaceMask Version="1.0">
    <Enable><!--req,xs:boolean--></Enable>
</FaceMask>
</Trigger>
<Schedule>
    <AllDay><!--req,xs:boolean--></AllDay>
    <TimeBlockList>
        <TimeBlock_0><!--req,xs:string--></TimeBlock_0>
        <TimeBlock_1><!--req,xs:string--></TimeBlock_1>
        <TimeBlock_2><!--req,xs:string--></TimeBlock_2>
        <TimeBlock_3><!--req,xs:string--></TimeBlock_3>
        <TimeBlock_4><!--req,xs:string--></TimeBlock_4>
        <TimeBlock_5><!--req,xs:string--></TimeBlock_5>
        <TimeBlock_6><!--req,xs:string--></TimeBlock_6>
    <TimeBlockList>
</Schedule>
<Region>
    <ID><!--req,xs:integer--></ID>
    <TopLeftX><!--req,xs:integer--></TopLeftX>
    <TopLeftY><!--req,xs:integer--></TopLeftY>
    <BottomRightX><!--req,xs:integer--></BottomRightX>
    <BottomRightY><!--req,xs:integer--></BottomRightY>
</Region>
</FieldDetect>
```

9.8 /PTZ

/PTZ	General Resource v1.0
Notes:	

9.8.1 /PTZ/ChannelID/Presets/Set

/PTZ/ChannelID/Presets/Set	General Resource v1.0
PUT	Viewer
Description	It is used to set a preset.
Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.	
There is one param, the “Param1” is preset number. the range of value is 0—127.	
Example:	
URL: http://192.168.1.46/PTZ/1/Presets/Set	
Data format:	
PUT /PTZ/1/Presets/Set HTTP/1.1\r\n	
Connection:close\r\n	
Host: 192.168.0.46\r\n	
Content-Length:\r\n	
\r\n	
Param1=1	

9.8.2 /PTZ/ChannelID/Presets/Remove

/PTZ/ChannelID/Presets/Remove	General Resource v1.0
PUT	Viewer
Description	It is used to remove a preset.
Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.	
There is one param, the “Param1” is preset number. the range of value is 0—127.	
some devices is not support for this URL.	
Example:	

URL: http://192.168.1.46/PTZ/1/Presets/Remove

Data format:

PUT /PTZ/1/Presets/Remove HTTP/1.1\r\n

Connection:close\r\n

Host: 192.168.0.46\r\n

Content-Length:\r\n

\r\n

Param1=1

9.8.3 /PTZ/ChannelID/Presets/Goto

/PTZ/ChannelID/Presets/Goto	General Resource v1.0
PUT	Viewer
Description	It is used to goto a preset
Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.	
There is one param,the “Param1” is preset number.the range of value is 0—127.	
Example:	
URL: http://192.168.1.46/PTZ/1/Presets/Goto	
Data format:	
PUT /PTZ/1/Presets/Goto HTTP/1.1\r\n	
Connection:close\r\n	
Host: 192.168.0.46\r\n	
Content-Length:\r\n	
\r\n	
Param1=1	

9.8.4 /PTZ/ChannelID/Cruise/StartCruiseMem

/PTZ/ChannelID/Cruise/StartCruiseMem	General Resource v1.0
PUT	Viewer
Description	It is used to start to record cruise point.
Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.	
There is one param,the “Param1” is Cruise number.the range of value is 0—15.	

Example:

URL: http://192.168.1.46/PTZ/1/Cruise/StartCuriseMen

Data format:

PUT /PTZ/1/Cruise/StartCuriseMen HTTP/1.1\r\n

Connection:close\r\n

Host: 192.168.0.46\r\n

Content-Length:\r\n

\r\n

Param1=1

9.8.5 /PTZ/ChannelID/Cruise/StopCruiseMem

/PTZ/ChannelID/Cruise/StopCruiseMem	General Resource
v1.0	
PUT	Viewer
Description	It is used to stop to record cruise point.
Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.	
There is one param,the “Param1” is Cruise number.the range of value is 0—15.	
Example:	
URL: http://192.168.1.46/PTZ/1/Cruise/StopCuriseMen	
Data format:	
PUT /PTZ/1/Cruise/StopCuriseMen HTTP/1.1\r\n	
Connection:close\r\n	
Host: 192.168.0.46\r\n	
Content-Length:\r\n	
\r\n	
Param1=1	

9.8.6 /PTZ/ChannelID/Cruise/ClearCruise

/PTZ/ChannelID/Cruise/ClearCruise	General Resource	v1.0
PUT	Viewer	
Description	It is used to Clear presets in a Cruise.	
Query	None	
Inbound Data	None	
Success Return	ResponseStatus	

Notes:

The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.
 There is one param, the “Param1” is Cruise number. the range of value is 0—15.
 some devices is not support for this URL.

Example:

URL: http://192.168.1.46/PTZ/1/Cruise/ClearCruise

Data format:

```
PUT /PTZ/1/Cruise/ClearCruise HTTP/1.1\r\n
Connection:close\r\n
Host: 192.168.0.46\r\n
Content-Length:\r\n
\r\n
Param1=1
```

9.8.7 /PTZ/ChannelID/Cruise/AddPresetToCruise

/PTZ/ChannelID/Cruise/AddPresetToCruise		General Resource	v1.0
PUT		Viewer	
Description	It is used to add a preset to cruise.		
Query	None		
Inbound Data	None		
Success Return	ResponseStatus		

Notes:

The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.

There is four params:

- the “Param1” is cruise number. the range of value is 0—15.
- the “Param2” is preset number, the range of value is 0—127
- the “Param3” is time to stay. It is in second.
- the “Param4” is moved speed, the range of value is 1—10.

Example:

URL: http://192.168.1.46/PTZ/1/Cruise/AddPresetToCruise

Data format:

```
PUT /PTZ/1/Cruise/AddPresetToCruise HTTP/1.1\r\n
Connection:close\r\n
Host: 192.168.0.46\r\n
Content-Length:\r\n
\r\n
Param1=1&Param2=1&Param3=1&Param4=1
```

9.8.8 /PTZ/ChannelID/Cruise/StartCruise

/PTZ/ChannelID/Cruise/StartCruise	General Resource v1.0
PUT	Viewer
Description	It is used to start cruise.
Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.	
There is one param, the “Param1” is Cruise number. the range of value is 0—15.	
Example:	
URL: http://192.168.1.46/PTZ/1/Cruise/StartCruise	
Data format:	
PUT /PTZ/1/Cruise/StartCruise HTTP/1.1\r\n	
Connection:close\r\n	
Host: 192.168.0.46\r\n	
Content-Length:\r\n	
\r\n	
Param1=1	

9.8.9 /PTZ/ChannelID/Cruise/StopCruise

/PTZ/ChannelID/Cruise/StopCruise	General Resource v1.0
PUT	Viewer
Description	It is used to stop cruise.
Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.	
There is one param, the “Param1” is Cruise number. the range of value is 0—15.	
Example:	
URL: http://192.168.1.46/PTZ/1/Cruise/StopCruise	
Data format:	
PUT /PTZ/1/Cruise/StopCruise HTTP/1.1\r\n	
Connection:close\r\n	
Host: 192.168.0.46\r\n	
Content-Length:\r\n	
\r\n	
Param1=1	

9.8.10 /PTZ/ChannelID/Track/StartTrackMem

/PTZ/ChannelID/Track/StartTrackMem	General Resource v1.0
PUT	Viewer
Description	It is used to start to record the track.
Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.	
There is one param, the “Param1” is track number. the range of value is 0—15.	
Example:	
URL: http://192.168.1.46/PTZ/1/Track/StartTrackMem	
Data format:	
PUT /PTZ/1/Track/StartTrackMem HTTP/1.1\r\n	
Connection:close\r\n	
Host: 192.168.0.46\r\n	
Content-Length:\r\n	
\r\n	
Param1=1	

9.8.11 /PTZ/ChannelID/Track/StopTrackMem

/PTZ/ChannelID/Track/StopTrackMem	General Resource v1.0
PUT	Viewer
Description	It is used to stop to record the track.
Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.	
Example:	
URL: http://192.168.1.46/PTZ/1/Track/StopTrackMem	
Data format:	
PUT /PTZ/1/Track/StopTrackMem HTTP/1.1\r\n	
Connection:close\r\n	
Host: 192.168.0.46\r\n	
Content-Length:\r\n	
\r\n	

Param1=1

9.8.12 /PTZ/ChannelID/Track/StartTrack

/PTZ/ ChannelID/Track/StartTrack	General Resource v1.0
PUT	Viewer
Description	It is used to start track.
Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.	
Example:	
URL: http://192.168.1.46/PTZ/1/Track/StartTrack	
Data format:	
PUT /PTZ/1/Track/StartTrack HTTP/1.1\r\n	
Connection:close\r\n	
Host: 192.168.0.46\r\n	
Content-Length:\r\n	
\r\n	
Param1=1	

9.8.13 /PTZ/ChannelID/Track/StopTrack

/PTZ/ChannelID/Track/StopTrack	General Resource v1.0
PUT	Viewer
Description	It is used to stop track.
Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.	
There is one param, the "Param1" is track number. the range of value is 0—15.	
Example:	
URL: http://192.168.1.46/PTZ/1/Track/StopTrack	
Data format:	
PUT /PTZ/1/Track/StopTrack HTTP/1.1\r\n	
Connection:close\r\n	
Host: 192.168.0.46\r\n	
Content-Length:\r\n	

\r\n
Param1=1

9.8.14 /PTZ/ChannelID/FocusFar

/PTZ/ChannelID/FocusFar	General Resource v1.0
PUT	Viewer
Description	It is used to adjust focus far.
Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.	
There is two params. The name of the first param is "Param1",the name of the second param is "Param2",if the "Param1" is "1" , it is present to start,otherwise,it is present to stop, the "Param2" is the speed, the range of the value is 1-10, the Format as shown:	
Example:	
URL: http://192.168.1.46/PTZ/1/FocusFar	
Data format:	
PUT /PTZ/1/FocusFar HTTP/1.1\r\n	
Connection:close\r\n	
Host: 192.168.0.46\r\n	
Content-Length:\r\n	
\r\n	
Param1=1&Param2=3	

9.8.15 /PTZ/ChannelID/FocusNear

/PTZ/ChannelID/FocusNear	General Resource v1.0
PUT	Viewer
Description	It is used to adjust focus near.
Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.	
There is two params. The name of the first param is "Param1",the name of the second param is "Param2",if the "Param1" is "1" , it is present to start,otherwise,it is present to stop, the "Param2" is the speed, the range of the value is 1-10, the Format as shown:	
Example:	

URL: http://192.168.1.46/PTZ/1/FocusNear

Data format:

```
PUT /PTZ/1/FocusNear HTTP/1.1\r\n
Connection:close\r\n
Host: 192.168.0.46\r\n
Content-Length:\r\n
\r\n
Param1=1&Param2=3
```

9.8.16 /PTZ/ChannelID/ApertureBigger

/PTZ/ChannelID/ApertureBigger		General Resource v1.0
PUT		Viewer
Description	It is used to adjust aperture bigger.	
Query	None	
Inbound Data	None	
Success Return	ResponseStatus	

Notes:

The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.

There is two params. The name of the first param is “Param1”,the name of the second param is “Param2”,if the “Param1” is “1” , it is present to start,otherwise,it is present to stop, the “Param2” is the speed, the range of the value is 1-10, the Format as shown:

Example:

URL: http://192.168.1.46/PTZ/1/ApertureBigger

Data format:

```
PUT /PTZ/1/ApertureBigger HTTP/1.1\r\n
Connection:close\r\n
Host: 192.168.0.46\r\n
Content-Length:\r\n
\r\n
Param1=1&Param2=3
```

9.8.17 /PTZ/ChannelID/ApertureSmaller

/PTZ/ChannelID/ApertureSmaller		General Resource v1.0
PUT		Viewer
Description	It is used to adjust aperture smaller	
Query	None	
Inbound Data	None	
Success Return	ResponseStatus	

Notes:

The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.

There is two params. The name of the first param is “Param1”,the name of the second param is “Param2”,if the “Param1” is “1” , it is present to start,otherwise,it is present to stop, the “Param2” is the speed, the range of the value is 1-10, the Format as shown:

Example:

URL: http://192.168.1.46/PTZ/1/AperatureSmaller

Data format:

PUT /PTZ/1/AperatureSmaller HTTP/1.1\r\n

Connection:close\r\n

Host: 192.168.0.46\r\n

Content-Length:\r\n

\r\n

Param1=1&Param2=3

9.8.18 /PTZ/ChannelID/ZoomIn

/PTZ/ChannelID/ZoomIn		General Resource v1.0
PUT		Viewer
Description	It is used to adjust zoom in.	
Query	None	
Inbound Data	None	
Success Return	ResponseStatus	

Notes:

The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.

There is two params. The name of the first param is “Param1”,the name of the second param is “Param2”,if the “Param1” is “1” , it is present to start,otherwise,it is present to stop, the “Param2” is the speed, the range of the value is 1-10, the Format as shown:

Example:

URL: http://192.168.1.46/PTZ/1/ZoomIn

Data format:

PUT /PTZ/1/ZoomIn HTTP/1.1\r\n

Connection:close\r\n

Host: 192.168.0.46\r\n

Content-Length:\r\n

\r\n

Param1=1&Param2=3

9.8.19 /PTZ/ChannelID/ZoomOut

/PTZ/ChannelID/ZoomOut	General Resource v1.0
PUT	Viewer
Description	It is used to adjust zoom out.
Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.	
There is two params. The name of the first param is "Param1",the name of the second param is "Param2",if the "Param1" is "1" , it is present to start,otherwise,it is present to stop, the "Param2" is the speed, the range of the value is 1-10, the Format as shown:	
Example:	
URL: http://192.168.1.46/PTZ/1/ZoomOut	
Data format:	
PUT /PTZ/1/ZoomOut HTTP/1.1\r\n	
Connection:close\r\n	
Host: 192.168.0.46\r\n	
Content-Length:\r\n	
\r\n	
Param1=1&Param2=3	

9.8.20 /PTZ/ChannelID/TurnLeft

/PTZ/ChannelID/TurnLeft	General Resource v1.0
PUT	Viewer
Description	It is used to turn left the video
Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.	
There is two params. The name of the first param is "Param1",the name of the second param is "Param2",if the "Param1" is "1" , it is present to start,otherwise,it is present to stop, the "Param2" is the speed, the range of the value is 1-10, the Format as shown:	
Example:	
URL: http://192.168.1.46/PTZ/1/TurnLeft	
Data format:	
PUT /PTZ/1/TurnLeft HTTP/1.1\r\n	
Connection:close\r\n	

```

Host: 192.168.0.46\r\n
Content-Length:\r\n
\r\n
Param1=1&Param2=3

```

9.8.21 /PTZ/ChannelID/TurnRight

/PTZ/ChannelID/TurnRight	General Resource v1.0
PUT	Viewer
Description	It is used to turn right the video
Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.	
There is two params. The name of the first param is “Param1”,the name of the second param is “Param2”,if the “Param1” is “1” , it is present to start,otherwise,it is present to stop, the “Param2” is the speed, the range of the value is 1-10, the Format as shown:	
Example:	
URL: http://192.168.1.46/PTZ/1/TurnRight	
Data format:	
<pre> PUT /PTZ/1/TurnRight HTTP/1.1\r\n Connection:close\r\n Host: 192.168.0.46\r\n Content-Length:\r\n \r\n Param1=1&Param2=3 </pre>	

9.8.22 /PTZ/ChannelID/TurnUp

/PTZ/ChannelID/TurnUp	General Resource v1.0
PUT	Viewer
Description	It is used to turn up the video
Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.	
There is two params. The name of the first param is “Param1”,the name of the second param is “Param2”,if the “Param1” is “1” , it is present to start,otherwise,it is present to stop, the	

“Param2” is the speed, the range of the value is 1-10, the Format as shown:

Example:

URL: http://192.168.1.46/PTZ/1/TurnUp

Data format:

PUT /PTZ/1/TurnUp HTTP/1.1\r\n

Connection:close\r\n

Host: 192.168.0.46\r\n

Content-Length:\r\n

\r\n

Param1=1&Param2=3

9.8.23 /PTZ/ChannelID/TurnDown

/PTZ/ChannelID/TurnDown	General Resource v1.0
PUT	Viewer
Description	It is used to turn down the video
Query	None
Inbound Data	None
Success Return	ResponseStatus

Notes:

The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.

There are two params. The name of the first param is “Param1”, the name of the second param is “Param2”, if the “Param1” is “1”, it is present to start, otherwise, it is present to stop, the “Param2” is the speed, the range of the value is 1-10, the Format as shown:

Example:

URL: http://192.168.1.46/PTZ/1/TurnDown

Data format:

PUT /PTZ/1/TurnDown HTTP/1.1\r\n

Connection:close\r\n

Host: 192.168.0.46\r\n

Content-Length:\r\n

\r\n

Param1=1&Param2=3

9.8.24 /PTZ/ChannelID/TurnUpLeft

/PTZ/ChannelID/TurnDown	General Resource v1.0
PUT	Viewer
Description	It is used to turn down the video
Query	None
Inbound Data	None

Success Return	ResponseStatus
Notes:	
<p>The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.</p> <p>There is two params. The name of the first param is “Param1”,the name of the second param is “Param2”,if the “Param1” is “1” , it is present to start,otherwise,it is present to stop, the “Param2” is the speed, the range of the value is 1-10, the Format as shown:</p> <p>Example:</p> <p>URL: http://192.168.1.46/PTZ/1/TurnUpLeft</p> <p>Data format:</p> <pre>PUT /PTZ/1/TurnDown HTTP/1.1\r\n Connection:close\r\n Host: 192.168.0.46\r\n Content-Length:\r\n \r\n Param1=1&Param2=3</pre>	

9.8.25 /PTZ/ChannelID/TurnUpRight

/PTZ/ChannelID/TurnDown	General Resource v1.0
PUT	Viewer
Description	It is used to turn down the video
Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	
<p>The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.</p> <p>There is two params. The name of the first param is “Param1”,the name of the second param is “Param2”,if the “Param1” is “1” , it is present to start,otherwise,it is present to stop, the “Param2” is the speed, the range of the value is 1-10, the Format as shown:</p> <p>Example:</p> <p>URL: http://192.168.1.46/PTZ/1/TurnUpRight</p> <p>Data format:</p> <pre>PUT /PTZ/1/TurnDown HTTP/1.1\r\n Connection:close\r\n Host: 192.168.0.46\r\n Content-Length:\r\n \r\n Param1=1&Param2=3</pre>	

9.8.26 /PTZ/ChannelID/TurnDownLeft

/PTZ/ChannelID/TurnDown	General Resource v1.0
-------------------------	-----------------------

PUT		Viewer
Description	It is used to turn down the video	
Query	None	
Inbound Data	None	
Success Return	ResponseStatus	
Notes:		
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.		
There is two params. The name of the first param is "Param1",the name of the second param is "Param2",if the "Param1" is "1" , it is present to start,otherwise,it is present to stop, the "Param2" is the speed, the range of the value is 1-10, the Format as shown:		
Example:		
URL: http://192.168.1.46/PTZ/1/TurnDownLeft		
Data format:		
PUT /PTZ/1/TurnDown HTTP/1.1\r\n		
Connection:close\r\n		
Host: 192.168.0.46\r\n		
Content-Length:\r\n		
\r\n		
Param1=1&Param2=3		

9.8.27 /PTZ/ChannelID/TurnDownRight

/PTZ/ChannelID/TurnDown		General Resource v1.0
PUT		Viewer
Description	It is used to turn down the video	
Query	None	
Inbound Data	None	
Success Return	ResponseStatus	
Notes:		
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.		
There is two params. The name of the first param is "Param1",the name of the second param is "Param2",if the "Param1" is "1" , it is present to start,otherwise,it is present to stop, the "Param2" is the speed, the range of the value is 1-10, the Format as shown:		
Example:		
URL: http://192.168.1.46/PTZ/1/TurnDownRight		
Data format:		
PUT /PTZ/1/TurnDown HTTP/1.1\r\n		
Connection:close\r\n		
Host: 192.168.0.46\r\n		
Content-Length:\r\n		
\r\n		
Param1=1&Param2=3		

9.8.28 /PTZ/ChannelID/AutoLeftRight

/PTZ/ChannelID/TurnDown	General Resource v1.0
PUT	Viewer
Description	It is used to turn down the video
Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.	
There is two params. The name of the first param is "Param1",the name of the second param is "Param2",if the "Param1" is "1" , it is present to start,otherwise,it is present to stop, the "Param2" is the speed, the range of the value is 1-10, the Format as shown:	
Example:	
URL: http://192.168.1.46/PTZ/1/AutoLeftRight	
Data format:	
PUT /PTZ/1/TurnDown HTTP/1.1\r\n	
Connection:close\r\n	
Host: 192.168.0.46\r\n	
Content-Length:\r\n	
\r\n	
Param1=1&Param2=3	

9.8.29 /PTZ/ChannelID/Auxiliary

/PTZ/ChannelID/Auxiliary	General Resource v1.0
PUT	Viewer
Description	It is used to open the auxiliary.
Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.	
There is one params that is "Param1" ,if the "Param1" is "1" , it is present to open,otherwise,it is present to close, the Format as shown:	
Example:	
URL: http://192.168.1.46/PTZ/1/Auxiliary	
Data format:	
PUT /PTZ/1/Auxiliary HTTP/1.1\r\n	
Connection:close\r\n	
Host: 192.168.0.46\r\n	

Content-Length:\r\n\r\nParam1=1

9.8.30 /PTZ/ChannelID/Light

/PTZ/ChannelID/Light	General Resource v1.0
PUT	Viewer
Description	It is used to open the light.
Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.	
There is one params that is “Param1” ,if the “Param1” is “1” , it is present to open,otherwise,it is present to close, the Format as shown:	
Example:	
URL: http://192.168.1.46/PTZ/1/Light	
Data format:	
PUT /PTZ/1/Light HTTP/1.1\r\nConnection:close\r\nHost: 192.168.0.46\r\nContent-Length:\r\n\r\nParam1=1	

9.8.31 /PTZ/ChannelID/RainBrush

/PTZ/ChannelID/RainBrush	General Resource v1.0
PUT	Viewer
Description	It is used to open the rain brush.
Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.	
There is one params that is “Param1” ,if the “Param1” is “1” , it is present to open,otherwise,it is present to close, the Format as shown:	
Example:	
URL: http://192.168.1.46/PTZ/1/RainBrush	

Data format:

```
PUT /PTZ/1/RainBrush HTTP/1.1\r\n
Connection:close\r\n
Host: 192.168.0.46\r\n
Content-Length:\r\n
\r\n
Param1=1
```

9.8.32 /PTZ/ChannelID/Fan

/PTZ/ChannelID/Fan	General Resource v1.0
PUT	Viewer
Description	It is used to open the fan.
Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.	
There is one params that is “Param1” ,if the “Param1” is “1” , it is present to open,otherwise,it is present to close, the Format as shown:	
Example:	
URL: http://192.168.1.46/PTZ/1/Fan	
Data format:	
<pre>PUT /PTZ/1/Fan HTTP/1.1\r\n Connection:close\r\n Host: 192.168.0.46\r\n Content-Length:\r\n \r\n Param1=1</pre>	

9.8.33 /PTZ/ChannelID/Hearer

/PTZ/ChannelID/Hearer	General Resource v1.0
PUT	Viewer
Description	It is used to open the hearter.
Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	

The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.

There is one params that is “Param1” ,if the “Param1” is “1” , it is present to open,otherwise,it is present to close, the Format as shown:

Example:

URL: http://192.168.1.46/PTZ/1/Harter

Data format:

PUT /PTZ/1/Harter HTTP/1.1\r\n

Connection:close\r\n

Host: 192.168.0.46\r\n

Content-Length:\r\n

\r\n

Param1=1

9.8.34 /PTZ/ChannelID/Config

/PTZ/ChannelID/Config		General Resource v1.0
GET		Viewer
Description	It is used to get PTZ configuration.	
Query	None	
Inbound Data	None	
Success Return	ResponseStatus or PTZConfigChannel	
PUT		Viewer
Description	It is used to close the hearter	
Query	None	
Inbound Data	PTZConfigChannel	
Success Return	ResponseStatus	
Notes:		
The <ChannelID> in URI shows the channel number. The <ChannelID> is start at 1.		
<WatchMode> indicate start watch after some second.the value of the <WatchMode> is in second.		
The Value of the <PTZActionID> is 0,1....,the range of the value is depend on the value of <PTZActionType>, if the <PTZActionType> is “preset”, the range is 0-15,if the <PTZActionType> is “cruise” or “track”, the value of the <PTZActionID> is must be 0.		
The value of the <Protocol> must be the one of the value of the <ProtocolName> int the <PTZProtocolList>.		

PTZConfigChannel Config XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<PTZConfigChannel>
    <Enable><!--req, xs:boolean--></Enable>
    <Address><!--req, xs:string--></Address>
    <Bitrate><!--req, xs:string--></Bitrate>
```

```

<Protocol><!--req, xs:string--></Protocol>
<PTZWatch>
    <Enable><!--req, xs:boolean--></Enable>
    <WatchMode><!--req, xs:integer,in second--></WatchMode>
    <PTZActionType><!--req, xs:string,"preset,cruise,track"--></PTZActionType>
    <PTZActionID><!--req, xs:integer--></PTZActionID>
</PTZWatch>
<PTZProtocolList>
    <ProtocolCount><!--req, xs:string--></ProtocolCount>
    <PTZProtocol>
        <ProtocolName><!--req, xs:string--></ProtocolName>
    </PTZProtocol>
</PTZProtocolList>
</PTZConfigChannel>

```

9.8.35 /PTZ/ChannelID/AdvanceConfig

/PTZ/ChannelID/AdvanceConfig		General Resource v1.0
GET		Viewer
Description	Get advanced configuration information for the PTZ	
Query	None	
Inbound Data	None	
Success Return	ResponseStatus or PTZAdvance	
PUT		Viewer
Description	Set advanced configuration information for the PTZ	
Query	None	
Inbound Data	PTZAdvance	
Success Return	ResponseStatus	
Notes:		
<ChannelID> Starting from 1.		

PTZAdvance Config XML

```

<PTZAdvance>
    <CruiseEnable><!--xs:boolean,"true,false"--></CruiseEnable>
    <BeginPresetNumForCruise><!--xs:integer--></BeginPresetNumForCruise>
    <BeginPresetActionForCruise><!--xs:string--></BeginPresetActionForCruise>
    <EndPresetNumForCruise><!--xs:integer--></EndPresetNumForCruise>
    <EndPresetActionForCruise><!--xs:string--></EndPresetActionForCruise>
    <WatchEnable><!--xs: boolean,"true,false"--></WatchEnable>
    <BeginPresetNumForWatch><!--xs:integer--></BeginPresetNumForWatch>
    <BeginPresetActionForWatch><!--xs:string--></BeginPresetActionForWatch>

```

```

<EndPresetNumForWatch><!--xs:integer--></EndPresetNumForWatch>
<EndPresetActionForWatch><!--xs:string--></EndPresetActionForWatch>
<TrackEnable><!--xs: boolean,"true,false"--></TrackEnable>
<BeginPresetNumForTrack><!--xs:integer--></BeginPresetNumForTrack>
<BeginPresetActionForTrack><!--xs:string--></BeginPresetActionForTrack>
<EndPresetNumForTrack><!--xs:integer--></EndPresetNumForTrack>
<EndPresetActionForTrack><!--xs:string--></EndPresetActionForTrack>

</PTZAdvance>

```

9.8.36 /PTZ/ChannelID/Watch/StartWatch

/PTZ/ChannelID/Watch/StartWatch	General Resource v1.0
PUT	Viewer
Description	Start Watch
Query	None
Inbound Data	None
Success Return	ResponseStatus
Note:	
<p style="color: red;"><ChannelID> Starting from 1. Param1 is Cruise.Range is 0-15.</p> <p>Sample:</p> <p style="color: red;">URL: http://192.168.1.46/PTZ/1/Watch/StartWatch</p> <p style="color: red;">Data:</p> <p style="color: red;">PUT /PTZ/1/Watch/StartWatch HTTP/1.1\r\n</p> <p style="color: red;">Connection:close\r\n</p> <p style="color: red;">Host: 192.168.0.46\r\n</p> <p style="color: red;">Content-Length:\r\n</p> <p style="color: red;">\r\n</p> <p style="color: red;">Param1=1</p>	

9.8.37 /PTZ/ChannelID/Watch/StopWatch

/PTZ/ChannelID/Watch/StopWatch	General Resource v1.0
PUT	Viewer
Description	Stop Watch
Query	None
Inbound Data	None
Success Return	ResponseStatus
Note:	

<ChannelID> Starting from 1.
 Param1 is Cruise.Range is 0-15.
 Sample:
 URL: <http://192.168.1.46/PTZ/1/Watch/StopWatch>
 Data:
 PUT /PTZ/1/Watch/StopWatch HTTP/1.1\r\n
 Connection:close\r\n
 Host: 192.168.0.46\r\n
 Content-Length:\r\n
 \r\n
 Param1=1

9.8.38 /PTZ/ChannelID/HumanTrack/StartHumanTrack

/PTZ/ChannelID/HumanTrack/StartHumanTrack		General Resource v1.0
PUT		Operator
Description	Start Track	
Query	None	
Inbound Data	None	
Success Return	ResponseStatus	
Note:		
<ChannelID> Starting from 1. Param1 is Cruise.Range is 0-15. Sample: URL: http://192.168.1.46/PTZ/1/HumanTrack/StartHumanTrack Data: PUT /PTZ/1/HumanTrack/StartHumanTrack HTTP/1.1\r\n Connection:close\r\n Host: 192.168.0.46\r\n Content-Length:\r\n \r\n Param1=1		

9.8.39 /PTZ/ChannelID/HumanTrack/StopHumanTrack

/PTZ/ChannelID/HumanTrack/StopHumanTrack		General Resource v1.0
PUT		Operator
Description	Stop track	
Query	None	
Inbound Data	None	
Success Return	ResponseStatus	

Notes:

<ChannelID> Starting from 1.
 Param1 is Cruise.Range is 0-15.
 Sample:
 URL: http://192.168.1.46/PTZ/1/HumanTrack/StopHumanTrack
 Data:
 PUT /PTZ/1/HumanTrack/StopHumanTrack HTTP/1.1\r\n
 Connection:close\r\n
 Host: 192.168.0.46\r\n
 Content-Length:\r\n
 \r\n
 Param1=1

9.8.40 /PTZ/ChannelID/Status

/PTZ/ChannelID/Status	General Resource v1.0
GET	Operator
Description	It is used to get the status of PTZ
Query	None
Inbound Data	None
Success Return	PTZStatus or ResponseStatus
Notes:	

PTZStatus XML

```
<?xml version="1.0" encoding="utf-8"?>
<PTZStatus>
  <ChannelID><!—req,xs:integer--></ChannelID>
  <Status><!—req,xs:integer--></Status>
</PTZStatus>
```

9.8.41 /PTZ/Config

/PTZ/Config	General Resource v1.0
GET	Viewer
Description	It is used to get the config of PTZ
Query	None
Inbound Data	None
Success Return	PTZConfig or ResponseStatus
PUT	Operator
Description	It is used to set the config of PTZ
Query	None
Inbound Data	PTZConfig

Success Return	ResponseStatus
Note:	

PTZConfig XML

```
<?xml version="1.0" encoding="utf-8"?>
<PTZConfig>
    <PTZConfigChannel>
        <Enable><!--req,xs:string--></Enable>
        <Address><!--req,xs:integer--></Address>
        <Bitrate><!--req,xs:integer--></Bitrate>
        <Protocol><!--req,xs:string--></Protocol>
        <Speed><!--opt,xs:integer--></Speed>
        <PTZProtocolList>
            <ProtocolCount><!--req,xs:integer--></ProtocolCount>
            <PTZProtocol>
                <ProtocolName><!--req,xs:string--></ProtocolName>
            </PTZProtocol>
        </PTZProtocolList>
        <PTZWatch>
            <Enable><!--req,xs:string "true","false"--></Enable>
            <WatchMode><!--req,xs:integer--></WatchMode>
            <PTZActionType><!--req,xs:string--></PTZActionType>
            <PTZActionID><!--req,xs:integer--></PTZActionID>
        </PTZWatch>
    </PTZConfigChannel>
</PTZConfig>
```

9.9 /TwowayAudio

/TwoWayAudio	General Resource v1.0
Notes:	

9.9.1 /TwowayAudio/Open

/TwowayAudio/Open	General Resource v1.0
PUT	Viewer
Description	It is used to open the two way audio.
Query	None
Inbound Data	TwoWayAudio
Success Return	ResponseStatus
Notes:	

```

<TwoWayAudio>
  <VoiceMode><!—req,xs:string,"G726,G711U,G711A" --></VoiceMode>
</TwoWayAudio>

```

9.9.2 /TwowayAudio/Close

/TwowayAudio/Open		General Resource v1.0
PUT		Viewer
Description		It is used to close the two way audio.
Query		None
Inbound Data		None
Success Return		ResponseStatus
Notes:		

9.9.3 /TwowayAudio/SendData

/TwowayAudio/SendData		General Resource v1.0
PUT		Viewer
Description		It is used to send audio data.
Query		None
Inbound Data		Audio Data
Success Return		ResponseStatus
Notes:		

Example:

PUT /TwowayAudio/sendData HTTP/1.1

...

Content-Type: audio/basic

Content-Length: xxx

\r\n

TwowayAudio Data

9.9.4 /TwowayAudio/ReceiveData

/TwowayAudio/ReceiveData	General Resource v1.0
---------------------------------	-----------------------

GET	Viewer
Description	It is used to receive audio data.
Query	None
Inbound Data	None
Success Return	Audio Data or ResponseStatus
Notes:	

Example:

GET /TwowayAudio/receiveData HTTP/1.1

...

HTTP/1.1 200 OK

...

Content-Type: audio/basic

Content-Length: xxx

\r\n

TwowayAudio Data...

9.10 /EventsNotification

/EventsNotification	General Resource v1.0
Notes:	

9.10.1 /EventsNotification/SubscribedEventTypeList

/EventsNotification/SubscribedEventTypeList	General Resource v1.0
GET	Viewer
Description	It is used to get a particular channel subscribed event type list.
Query	None
Inbound Data	None
Success Return	SubscribedEventTypeList or ResponseStatus
PUT	Operator
Description	It is used to subscribe a event type.
Query	None
Inbound Data	SubscribedEventTypeList
Success Return	ResponseStatus
DELETE	Operator
Description	It is used to delete subscribed event type.
Query	None

Inbound Data	SubscribedEventTypeList
Success Return	ResponseStatus
Notes: You only use “PUT” method to subscribe a event type and you only set the value of the <Event Type>	

EventList XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<SubscribedEventTypeList>
    <SubscribedEventType>
        <ID><!--req, xs:integer--></ID>
        <EventType><!--req, xs:string, "VMD,videolost,Alarmln" --></EventType>
        <EventTypeDescription><!--req, xs:string--></EventTypeDescription>
    </SubscribedEventType>
</SubscribedEventTypeList>
```

9.10.2 /EventsNotification/Notify

/EventsNotification/Notify(not support)	General Resource v1.0
GET	Viewer
Description	It is used to get the event notification data stream through HTTP server push.
Query	None
Inbound Data	None
Success Return	EventNotify
Notes: This function is used to get an event notification alert stream from the media device via HTTP or HTTPS. This function does not require that a client/VMS system be added as an HTTP(S) destination on the media device. Instead, the client/VMS system can call this API to initialize a stream of event information from the device. In other words, a connection is established with the device when this function is called, and stays open to constantly receive event notifications. This API uses HTTP server-push with the MIME type multipart/mixed defined in RFC 2046. <protocol> is the protocol name, i.e. “HTTP” or “HTTPS”. <channelID> is present for video and analytics events. This URL is not support.	

EventList XML Block

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

```

<IPAddress><!--req, xs:string--></IPAddress>
<Port><!--req, xs:integer--></Port>
<Protocol><!--req, xs:string--></Protocol>
<ChannelID><!--req, xs:string--></ChannelID>
<DateTime><!--req, xs:datetime--></DateTime>
<EventType><!--req, xs:string--></EventType>
<EventDescription><!--req, xs:string--></EventDescription>
</EventNotify>

```

9.10.3 /EventsNotification/EventList

/EventsNotification/EventList		General Resource v1.0
GET	Viewer	
Description	It is used to get the event notification data stream through HTTP server push.	
Query	None	
Inbound Data	None	
Success Return	EventList	
Notes:		
Firstly, You must be subscribe a event(VMD, VideoLost, Alarmln) you want by the URL of /EventsNotification/SubscribedEventTypeList , then, you can get the current event list by the url /EventsNotification/EventList .		

EventList XML Block

```

<?xml version="1.0" encoding="utf-8"?>
<EventList>
    <Event>
        <ID><!--req, xs:string --></ID>
        <IPAddress><!--req, xs:string--></IPAddress>
        <Port><!--req, xs:integer--></Port>
        <Protocol><!--req, xs:string--></Protocol>
        <ChannelID><!--req, xs:string--></ChannelID>
        <DateTime><!--req, xs:datetime--></DateTime>
        <EventType><!--req, xs:string--></EventType>
        <EventDescription><!--req, xs:string--></EventDescription>
    </Event>
</EventList>

```

9.11 /Alarm

/Alarm	General Resource v1.0
--------	-----------------------

9.11.1 /Alarm/Alarmln

/Alarm/Alarmln	General Resource v1.0
GET	Viewer
Description	It is used to get all alarm-in configuration.
Query	None
Inbound Data	None
Success Return	ResponseStatus or AlarmlnList
PUT	Operator
Description	It is used to set all alarm-in configuration.
Query	None
Inbound Data	AlarmlnList
Success Return	ResponseStatus
Notes:	

Alarmln XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<AlarmlnList>
    <Alarmln><!-- opt -->
</AlarmlnList>
```

9.11.1.1 /Alarm/AlarmIn/ChannelID

/Alarm/Alarmln/ChannelID	General Resource v1.0
GET	Viewer
Description	It is used to get alarm-in configuration.
Query	None
Inbound Data	None
Success Return	ResponseStatus or Alarmln
PUT	Operator
Description	It is used to set alarm-in configuration.
Query	None
Inbound Data	Alarmln
Success Return	ResponseStatus
Notes:	<p>The format of <AlarmOutMask>,<SnapshotMask>,<RecordMask> is similar to “11111111” or “00000000”, each bit represents whether a channel is linkage or not, 1 means linkage, 0 means not linkage, for example, the string “11111111” represents that the device is 8 channels, from left to right, represent channel 1,channel 2,channel 3..... and so on.</p> <p>For single-channel device, <AlarmOutMask>, <SnapshotMask>, <RecordMask></p>

and<PTZActionList> are not effective .

AlarmIn XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<AlarmIn>
    <ID><!--req,xs:string --></ID>
    <Name><!—req,xs:string,max length little than 128--></Name>
    <AlarmInType><!--req,xs:string,"open,close"--></AlarmInType>
    <Schedule>
        <AllDay><!--req,xs:Boolean--></AllDay>
        <TimeBlock>
            <Block_0><!req,xs:string></Block_0>
            <Block_1><!req,xs:string></Block_1>
            <Block_2><!req,xs:string></Block_2>
            <Block_3><!req,xs:string></Block_3>
            <Block_4><!req,xs:string></Block_4>
            <Block_5><!req,xs:string></Block_5>
            <Block_6><!req,xs:string></Block_6>
        <TimeBlock>
    </Schedule>
    <Trigger>
        <NotifyAMS>
            <Enable><!--req,xs:boolean--></Enable>
        </NotifyAMS>
        <BeepAlert>
            <Enable><!--req,xs:boolean--></Enable>
        </BeepAlert>
        <FullScreen>
            <Enable><!--req,xs:boolean--></Enable>
        </FullScreen>
        <Mail>
            <Enable><!--req,xs:boolean--></Enable>
        </Mail>
        <AlarmOut>
            <Enable><!--req,xs:boolean--></Enable>
            <AlarmOutMask><!--req,xs:string," 1111111111111111"--></AlarmOutMask>
        </AlarmOut>
        <Snapshot>
            <Enable><!--req,xs:boolean--></Enable>
            <SnapshotMask><!--req,xs:string," 1111111111111111"--></SnapshotMask>
        </Snapshot>
        <Record>
            <Enable><!--req,xs:boolean--></Enable>
            <RecordMask><!--req,xs:string," 1111111111111111"--></RecordMask>
        </Record>
    </Trigger>
</AlarmIn>
```

```

<PTZ>
    <Enable><!--req, xs:boolean--></Enable>
    <ptzChannelID> <!--req, xs:string --></ptzChannelID>
    <ActionName><!-- req, xs:string,"none,preset, pattern, patrol" --></ActionName>
    <ActionNum><!--req,xs:integer,depend on <ActionName>--></ActionNum>
</PTZ>
</Trigger>
</Alarmln>

```

9.11.2 /Alarm/AlarmOut

/Alarm/AlarmOut		General Resource v1.0
GET		Viewer
Description	None	It is used to get all alarm-out configuration.
Query		None
Inbound Data		None
Success Return		ResponseStatus or AlarmOutList
PUT		Operator
Description	None	It is used to set all alarm-out configuration.
Query		None
Inbound Data		AlarmOutList
Success Return		ResponseStatus
Notes:		

AlarmOutList XML Block

```

<?xml version="1.0" encoding="utf-8"?>
<AlarmOutList>
    <AlarmOut><!-- opt -->
</AlarmOutList>

```

9.11.2.1 /Alarm/AlarmOut/ChannelID

/Alarm/AlarmOut/ChannelID		General Resource v1.0
GET		Viewer
Description	None	It is used to get a alarm-out configuration.
Query		None
Inbound Data		None
Success Return		ResponseStatus or AlarmOut
PUT		Operator
Description	It is used to set a alarm-out configuration.	

Query	None
Inbound Data	AlarmOut
Success Return	ResponseStatus
Notes:	

If The value of the <Delay> is "keep", the alarm keep output.if The value of the <Delay> is number such as 5,the alarm will be keep 5 second output.

AlarmOut XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<AlarmOut>
    <ID><!--req,xs:string --></ID>
    <Name><!--req,xs:string,max length little than 128--></Name>
    <Delay><!--req,xs:string,"keep,custom(the unit is second)"--></Delay>
</AlarmOut>
```

9.11.2.1.1 /Alarm/AlarmOut/ChannelID/ControlMode

/Alarm/AlarmOut/ChannelID/ControlMode		General Resource v1.0
GET		Viewer
Description		It is used to get the status of controlmode
Query		None
Inbound Data		None
Success Return		ResponseStatus or AlarmOut
PUT		Operator
Description		It is used to get the status of controlmode
Query		None
Inbound Data		AlarmOut
Success Return		ResponseStatus
Notes:		
ChannelID start from 1.		

AlarmOut Get XML

```
<?xml version="1.0" encoding="utf-8"?>
<AlarmOut>
    <ChannelID><!--ro,req,xs:interger--></ChannelID>
    <ControlMode><!--ro,req,xs:string:"true","false"--></ ControlMode>
</AlarmOut>
```

AlarmOut Put XML

```
<?xml version="1.0" encoding="utf-8"?>
<AlarmOut>
    <ControlMode><!--ro,req,xs:string:"true","false"--></ ControlMode>
</AlarmOut>
```

9.11.3 /Alarm/AMS

/Alarm/AMS	General Resource v1.0
GET	Viewer
Description	It is used to get ams configuration
Query	None
Inbound Data	None
Success Return	ResponseStatus or AMS
PUT	Operator
Description	It is used to set ams configuration
Query	None
Inbound Data	AMS
Success Return	ResponseStatus
Notes:	

AMS XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<AMS>
    <Enable><!--rw,req,xs:boolean --></Enable>
    <ServerName><!--rw,req,xs:string --></ServerName>
    <UserName><!--rw,req,xs:string --></UserName>
    <Password><!--rw,req,xs:string --></Password>
    <ServerURL><!--rw,req,xs:string --></ServerURL>
</AMS>
```

9.11.4 /Alarm/AMS/1

/Alarm/AMS/1	General Resource v1.0
GET	Viewer
Description	It is used to get ams configuration
Query	None
Inbound Data	None
Success Return	ResponseStatus or AMS
PUT	Operator
Description	It is used to set ams configuration
Query	None
Inbound Data	AMS
Success Return	ResponseStatus
Notes:	

AMS XML

```

<?xml version="1.0" encoding="utf-8"?>
<AMS>
    <Enable><!—rw,req,xs:boolean --></Enable>
    <ServerName><!—rw,req,xs:string --></ServerName>
    <UserName><!—rw,req,xs:string --></UserName>
    <Password><!—rw,req,xs:string --></Password>
    <Message><!—rw,req,xs:string --></ServerURL>
</AMS>

```

9.11.5 /Alarm/AMS/2

/Alarm/AMS/2		General Resource v1.0
GET		Viewer
Description		It is used to get ams configuration
Query		None
Inbound Data		None
Success Return		ResponseStatus or AMS
PUT		Operator
Description		It is used to set ams configuration
Query		None
Inbound Data		AMS
Success Return		ResponseStatus
Notes:		

AMS XML

```

<?xml version="1.0" encoding="utf-8"?>
<AMS>
    <Enable><!—rw,req,xs:boolean --></Enable>
    <ServerName><!—rw,req,xs:string --></ServerName>
    <UserName><!—rw,req,xs:string --></UserName>
    <Password><!—rw,req,xs:string --></Password>
    <Message><!—rw,req,xs:string --></ServerURL>
</AMS>

```

9.11.6 /Alarm/EventCfgList

/Alarm/EventCfgList		General Resource v1.0
GET		Viewer
Description		It is used to get event configuration list
Query		None
Inbound Data		None
Success Return		ResponseStatus or EventCfgList

PUT		Operator
Description	It is used to set event configuration list	
Query	None	
Inbound Data	EventCfgList	
Success Return	ResponseStatus	
Notes:		

EventCfgList XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<EventCfgList>
    <motion>
        <PreRecordTime><!--rw,req,xs:integer--></PreRecordTime>
        <AlarmInterval><!--rw,req,xs:integer--></AlarmInterval>
        <Message><!--rw,req,xs:string--></Message>
    </motion>
    <http>
        <PreRecordTime><!--rw,req,xs:integer--></PreRecordTime>
        <AlarmInterval><!--rw,req,xs:integer--></AlarmInterval>
        <Message><!--rw,req,xs:string--></Message>
    </http>
</EventCfgList>
```

9.11.7 /Alarm/EventCfgList/1

/Alarm/EventCfgList/1		General Resource v1.0
GET		Viewer
Description	It is used to get the alarm event config	
Query	None	
Inbound Data	None	
Success Return	ResponseStatus or EventCfgList	
PUT		Operator
Description	It is used to set the alarm event config	
Query	None	
Inbound Data	EventCfgList	
Success Return	ResponseStatus	
Notes:		

EventCfgList XML

```
<?xml version="1.0" encoding="utf-8"?>
<EventCfgList>
    <motion>
        <PreRecordTime><!--rw,req,xs:integer--></PreRecordTime>
        <AlarmInterval><!--rw,req,xs:integer--></AlarmInterval>
```

```

<Message><!--rw,req,xs:string--></Message>
</motion>
<http>
  <PreRecordTime><!--rw,req,xs:integer--></PreRecordTime>
  <AlarmInterval><!--rw,req,xs:integer--></AlarmInterval>
  <Message><!--rw,req,xs:string--></Message>
</http>
</EventCfgList>

```

9.11.8 /Alarm/EventCfgList/2

/Alarm/EventCfgList/2		General Resource v1.0
GET		Viewer
Description	It is used to get the alarm event config	
Query	None	
Inbound Data	None	
Success Return	ResponseStatus or EventCfgList	
PUT		Operator
Description	It is used to set the alarm event config	
Query	None	
Inbound Data	EventCfgList	
Success Return	ResponseStatus	
Notes:		

EventCfgList XML

```

<?xml version="1.0" encoding="utf-8"?>
<EventCfgList>
  <motion>
    <PreRecordTime><!--rw,req,xs:integer--></PreRecordTime>
    <AlarmInterval><!--rw,req,xs:integer--></AlarmInterval>
    <Message><!--rw,req,xs:string--></Message>
  </motion>
  <http>
    <PreRecordTime><!--rw,req,xs:integer--></PreRecordTime>
    <AlarmInterval><!--rw,req,xs:integer--></AlarmInterval>
    <Message><!--rw,req,xs:string--></Message>
  </http>
</EventCfgList>

```

9.11.9 /Alarm/AlarmAction/AlarmID/LightWarning

/Alarm/AlarmAction/AlarmID/LightWarning	General Resource v1.0
PUT	Operator
Description	It is used to control IPC to alarm by light.
Query	None
Inbound Data	LightAlarm
Success Return	ResponseStatus
Notes:	
AlarmID start from 1.	

LightAlarm Put XML

```
<?xml version="1.0" encoding="utf-8"?>
<LightAlarm><!--req-->
    <LightWarning><!--req, xs:string, "Twinkle_Open_Close"--></LightWarning>
    <TwinkleTime><!--ro, req, xs:integer(suggest:2)--></TwinkleTime>
</LightAlarm>
```

9.11.10 /Alarm/AlarmAction/AlarmID/LightWarningByCurrentConfig

/Alarm/AlarmAction/AlarmID/LightWarningByCurrentConfig	General Resource v1.0
PUT	Viewer
Description	It is used to control IPC to alarm by light. (According to current config)
Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	
AlarmID start from 1.	

9.11.11 /Alarm/PreventionControl

/Alarm/PreventionControl	General Resource v1.0
GET	Viewer
描述	It is used to get the status of prevention
查询参数	None
输入数据	None

返回参数	ResponseStatus or AlarmPreventionControl
PUT	Operator
描述	It is used to get the status of prevention
查询参数	None
输入数据	AlarmPreventionControl
返回参数	ResponseStatus

Notes:
The status will recovery after restart

AlarmPreventionControl XML

```
<?xml version="1.0" encoding="utf-8"?>
<AlarmPreventionControl>
    <Status><!—rw,req,xs:string"Disable","Enable"--></Status>
</AlarmPreventionControl>
```

9.12 /Record

/Record	General Resource v1.0
GET	Viewer
Description	It is used to get record configuration.
Query	None
Inbound Data	None
Success Return	ResponseStatus or Record
PUT	Operator
Description	It is used to set record configuration.
Query	None
Inbound Data	Record
Success Return	ResponseStatus

Notes:

Record XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<Record>
    <RecordWriteCircleType><!—rw,req,xs:string,"fullnotwrite,writecircle"--></RecordWriteCircleType>
    <RecordDeleteType><!—rw,req,xs:string,"24,48,none"--></RecordDeleteType>
    <RecordStreamType><!—rw,req,xs:string,"main,sub,hdsub"--></RecordStreamType>
    <PreRecord><!—rw,opt,xs:integer,1-120,the unit is second--></PreRecord>
    <DelayRecord><!—rw,opt,xs:integer,1-120,the unit is second--></DelayRecord>
    <RecordMode><!—rw,opt,xs:string,"stop,manual,auto"--></RecordMode>
</Record>
```

9.12.1 /Record/HttpEvent/Config

/Record/HttpEvent/Config	General Resource v1.0
GET	Viewer
Description	It is used to get http event configuration.
Query	None
Inbound Data	None
Success Return	ResponseStatus or HttpEventConfig
PUT	Operator
Description	It is used to set http event configuration.
Query	None
Inbound Data	HttpEventConfig
Success Return	ResponseStatus
Notes:	

AlarmOut XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<HttpEventConfig>
    <Enable><!--req:xs:boolean--></Enable>
</HttpEventConfig>
```

9.12.2 /Record/HttpEvent/Call

/Record/HttpEvent/Call	General Resource v1.0
PUT	Viewer
Description	It is used to Call a record event.
Query	None
Inbound Data	None
Success Return	ResponseStatus
Notes:	

9.12.3 /Record/Format/Call

/Record/Format/Call	General Resource v1.0
PUT	Viewer
Description	It is used to Format the storage device.
Query	None
Inbound Data	None
Success Return	ResponseStatus

Notes:

9.12.4 /Record/Notify/URL

/Record/Notify/URL		General Resource v1.0
GET		Viewer
Description		It is used to get the URL of the upload server.
Query		None
Inbound Data		None
Success Return		URL or ResponseStatus
PUT		Viewer
Description		It is used to Set the URL of the upload server.
Query		None
Inbound Data		URL
Success Return		ResponseStatus
Notes:		

URL XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<URL>
    <Description><!--req,xs: string --></Description>
    <Protocol><!--req,xs:string,such as http,ftp,https --></Protocol>
    <Host><!--req,xs: string --></Host>
    <Port><!--req,xs:interger--></Port>
    <Path><!--req,xs:string--></Path>
    <Username><!--req,xs:string--></Username>
    <Password><!--req,xs:string--></Password>
</URL>
```

9.12.5 /Record/ChannelID/RecordSchedule

/Record/Notify/URL		General Resource v1.0
GET		Viewer
Description		It is used to get the record schedule
Query		None
Inbound Data		None
Success Return		RecordSchedule or ResponseStatus
PUT		Viewer
Description		It is used to set the record schedule
Query		None
Inbound Data		RecordSchedule

RecordSchedule XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<RecordSchedule>
  <StreamType><!--req, xs:string, "main,sub,hdsu" --></StreamType>
  <Schedule>
    <AllDay><!--req, xs:boolean--></AllDay>
    <TimeBlockList>
      <TimeBlock_0><!--req, xs:string--></TimeBlock_0>
      <TimeBlock_1><!--req, xs:string--></TimeBlock_1>
      <TimeBlock_2><!--req, xs:string--></TimeBlock_2>
      <TimeBlock_3><!--req, xs:string--></TimeBlock_3>
      <TimeBlock_4><!--req, xs:string--></TimeBlock_4>
      <TimeBlock_5><!--req, xs:string--></TimeBlock_5>
      <TimeBlock_6><!--req, xs:string--></TimeBlock_6>
    <TimeBlockList>
  </Schedule>
</RecordSchedule>
```

9.13 /Disk

/Disk	General Resource	v1.0
GET		Viewer

Description	It is used to get the disk configuration.
Query	None
Inbound Data	None
Success Return	ResponseStatus or DiskList
PUT	Operator
Description	It is used to set the disk configuration.
Query	None
Inbound Data	DiskList
Success Return	ResponseStatus
Notes:	
The <PictureCapacityPercent> and <RecordCapacityPercent> is the actual storage size, not the percentage.	

DiskList XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<DiskList>
    <Disk>
        <DiskID><!—ro,req,xs:integer,"0,1,2...."--></DiskID>
        <TotalCapacity><!—ro,req,xs:integer,the unit is MB--></TotalCapacity>
        <AvailableCapacity><!—ro,req,xs:integer,the unit is MB--></AvailableCapacity>
        <DiskStorageType><!—ro,req,xs:string,"SD,samba"--></DiskStorageType>
        <DiskStorageAttribute><!—ro,req,xs:string,"idle,writting,reading,diskexception,diskerror,re
adonly,readwrite,nodisk,exceptionneedformat,exceptionneedChangeDisk,formatfailedneed
reboot" --></DiskStorageAttribute>
        <PictureCapacityPercent><!—rw,req,xs:integer--></PictureCapacityPercent>
        <RecordCapacityPercent><!—rw,req,xs:integer--></RecordCapacityPercent>
        <DiskFormatStatus><!—ro,req,xs:string,"unformatted,formatting,formatted,format
failure,umount failure,device is busy"--></DiskFormatStatus>
    </Disk>
</DiskList>
```

9.14 /Playback

9.14.1 /Playback/GetRecordInfoByMonth

/Playback/GetRecordInfoByMonth	General Resource v1.0
GET	Viewer
Description	It is used to get the RecordInfo by Month.
Query	None
Inbound Data	None
Success Return	ResponseStatus or RecordInfoByMonth
Notes:	

From left to right,if the bit of the <RecordInfo> is “0”,then the day has no record,otherwise ,the day has record.

Example:

<http://192.168.0.180/Playback/GetRecordInfoByMonth?Year=2017&Month=2>

RecordInfoByMonth XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<RecordInfoByMonth>
    <RecordInfo><!—ro,req,xs:string,"00000000000000001111111111111111"--></RecordInfo>
</RecordInfoByMonth>
```

9.14.2 /Playback/GetRecordInfoByDay

/Playback/GetRecordInfoByDay		General Resource v1.0
GET		Viewer
Description		It is used to get the disk configuration.
Query		None
Inbound Data		None
Success Return		ResponseStatus or RecordInfoByDay
Notes:		
<Channel> is start at 0,if the value is 0xff,It is present to search all channel.		
<RecordType> is invalid,defaultly search all record information.		
Example:		
http://192.168.0.180/Playback/GetRecordInfoByDay?Year=2017&Month=2&Day=10&Channel=0&RecordType=0		

RecordInfoByDay XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<RecordInfoByDay>
    <RecordInfoList>
        <RecordInfo>
            <Channel><!—ro,req,xs:integer--></Channel>
            <RecordType><!—ro,req,xs:string,"general,manual,alarm,motion"--></RecordType>
            <StartTime><!—req,xs:datetime," 20040503173008"--></StartTime>
            <EndTime><!—req,xs:datetime," 20040503173008"--></EndTime>
        </RecordInfo>
    </RecordInfoList>
</RecordInfoByDay>
```

9.15 RTMP

9.15.1 /RTMP/BasicConfig

/RTMP/BasicConfig	General Resource v1.0
GET	Viewer
Description	It is used to get basic RTMP settings.
Query	None
Inbound Data	None
Success Return	
SET	Viewer
Description	It is used to get the .
Query	None
Inbound Data	None
Success Return	
the <IsSupportRetrievePushAddressFromServer> of value is “true” means device support retrieve pushing stream URL from a specific server. when “false”, the pushing stream URL must be specific by manually. <Mode> “dynamic” or “manual”. <PushURLGeneratorServer> is Server URL, this server must be ruled by our protocol. if you want to build a server, you should contact us.	

RecordInfoByMonth XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<BasicConfig>
    <IsSupportRetrievePushAddressFromServer><!--req, xs:boolean--></IsSupportRetrievePushAddressFromServer>
    <Mode><!--ro, req, xs:string--></Mode>
    <PushURLGeneratorServer><!--ro, req, xs:string--></PushURLGeneratorServer>
</BasicConfig>
```

9.15.2 /RTMP/ChannelID/StreamID/Config

/RTMP/StreamID/Config	General Resource v1.0
GET	Viewer
Description	It is used to get the .
Query	None
Inbound Data	None
Success Return	
SET	Viewer
Description	It is used to get the .

Query	None
Inbound Data	None
Success Return	
Notes:	
<p>The <ChannelID> in the URI shows the channel number, The <ChannelID> is start at 1.</p> <p>The <StreamID> represents stream type, generally "1" represents the main stream, "2" means "the first sub-Stream", "3" means "the second sub-stream", and so on.</p> <p>The <Enable> field and <PushURL> are valid when <Mode> of BasicConfig equals "manual". "true" enable device to push stream to RTMP sever, "false" disable RTMP service.</p> <p>The <PushURL> field is RTMP URL for pushing stream by RTMP protocol. when device working at manual mode, this field must be fill by user.</p> <p>The <PlayURL> field is valid when device working at dynamic mode. User cloud open this URL by web browser to watch stream(ChannelID/StreamID).</p>	

RecordInfoByMonth XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<Config>
    <Enable><!--rw,req,xs:boolean--></Enable>
    <PushURL><!--rw,req,xs:string--></PushURL>
    <PushURL_Base64><!--rw,req,xs:string--></PushURL_Base64>
    <Status><!--ro,req,xs:string--></Status>
    <PlayURL><!--rw,req,xs:string--></PlayURL>
    <PlayURL_Base64><!--rw,req,xs:string--></PlayURL_Base64>
    <AudioEnable><!--rw,req,xs:boolean--></AudioEnable>
</Config>
```

9.16 /RecordFileList

9.16.1 /RecordFileList/Attribute

/RecordFileList/Attribute		General Resource v1.0
GET		Viewer
Description		It is used to get the Record file list attribute.
Query		None
Inbound Data		None
Success Return		ResponseStatus or RecordFileListAttribute
PUT		Operator
Description		It is used to set the record file list attribute.
Query		None
Inbound Data		RecordFileListAttribute
Success Return		ResponseStatus

Notes:

<begin_time>,<end_time>,<timezone_min_between_utc> is valid when the method of the http protocol is “PUT”.

RecordFileListAttribute XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<RecordFileListAttribute>
    <RecordFileSumCount><!—ro,req,xs:integer--></RecordFileSumCount>
    <RecordFileCountPerPage><!—ro,req,xs:integer--></RecordFileCountPerPage>
    <begin_time><!—ro,opt,xs:string,"20180507 020445"--></begin_time>
    <end_time><!—ro,opt,xs:string " 20180507 020445"--></end_time>
    <timezone_min_between_utc><!—ro,opt,xs:integer,the unit is minute -->
    </timezone_min_between_utc>
</RecordFileListAttribute>
```

9.16.2 /RecordFileList/Pages/PageNum

/RecordFileList/Pages/PageNum		General Resource v1.0
GET		Viewer
Description		It is used to get the Record list of the special page number.
Query		None
Inbound Data		None
Success Return		ResponseStatus or RecordFileList
Notes:		
Example: <a href="http://192.168.0.180/RecordFileList/Pages/1?PathType=0 1(0,the <PathName> relative to the http root directory.1,the <PathName> is a absolute path.)">http://192.168.0.180/RecordFileList/Pages/1?PathType=0 1(0,the <PathName> relative to the http root directory.1,the <PathName> is a absolute path.)		

RecordFileList XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<RecordFileList>
    <RecordFile>
        <PathName><!—ro,req,xs:string--></PathName>
        <FileName><!—ro,req,xs:string--></FileName>
        <StartTime><!--req,xs:datetime" 20040503 173008"--></StartTime>
        <StopTime><!--req,xs:datetime" 20040503 173008"--></StopTime>
        <FileSize><!--req,xs:integer,the unit is byte--></FileSize>
    </RecordFile>
</RecordFileList>
```

9.17/SnapshotFileList

9.17.1 /SnapshotFileList/Attribute

/SnapshotFileList/Attribute		General Resource v1.0
GET		Viewer
Description		It is used to get the snapshot file list attribute.
Query		None
Inbound Data		None
Success Return		ResponseStatus or SnapshotFileListAttribute
PUT		Operator
Description		It is used to set the snapshot file list attribute.
Query		None
Inbound Data		SnapshotFileListAttribute
Success Return		ResponseStatus
Notes:		
<begin_time>,<end_time>,<timezone_min_between_utc> is valid when the method of the http protocol is “PUT”.		

SnapshotFileListAttribute XML Block

```

<?xml version="1.0" encoding="utf-8"?>
<SnapshotFileListAttribute>
    <SnapshotFileSumCount><!—ro,req,xs:integer--></SnapshotFileSumCount>
    <SnapshotFileCountPerPage><!—ro,req,xs:integer--></SnapshotFileCountPerPage>
    <begin_time><!—ro,opt,xs:string,"20180507 020445"--></begin_time>
    <end_time><!—ro,opt,xs:string " 20180507 020445" --></end_time>
    <timezone_min_between_utc><!—ro,opt,xs:intenger,the unit is minute -->
    </timezone_min_between_utc>
</SnapshotFileListAttribute>

```

9.17.2 /SnapshotFileList/Pages/PageNum

/SnapshotFileList/Pages/PageNum		General Resource v1.0
GET		Viewer
Description		It is used to get the snapshot list of the special page number.
Query		None
Inbound Data		None
Success Return		ResponseStatus or SnapshotFileList
Notes:		
Example:		

[http://192.168.0.180/SnapshotFileList/Pages/1?PathType=0|1\(0,the <PathName> relative to the http root directory,1,the <PathName> is a absolute path.\)](http://192.168.0.180/SnapshotFileList/Pages/1?PathType=0|1(0,the <PathName> relative to the http root directory,1,the <PathName> is a absolute path.))

SnapshotFileList XML Block

```
<?xml version="1.0" encoding="utf-8"?>
<SnapshotFileList>
    <SnapshotFile>
        <PathName><!--ro,req,xs:string--></PathName>
        <FileName><!--ro,req,xs:string--></FileName>
        <StartTime><!--req,xs:datetime" 20040503 173008"--></StartTime>
        <StopTime><!--req,xs:datetime" 20040503 173008"--></StopTime>
        <FileSize><!--req,xs:integer,the unit is byte--></FileSize>
    </SnapshotFile>
</SnapshotFileList>
```

9.18 /FaceGroup

9.18.1 /FaceGroup/Create

/FaceGroups/Create	General Resource v1.0
PUT	Viewer
Description	It is used to create new face group
Query	None
Inbound Data	FaceGroup
Success Return	ResponseStatus or FaceGroupResponse
Notes:	

Input XML
<?xml version = "1.0" encoding = "utf-8"?> <FaceGroup> <GroupName><!-- xs:string,the max length is 32--></GroupName> </FaceGroup>
Output XML
<?xml version = "1.0" encoding = "utf-8"?> <FaceGroup> <GroupID><!-- xs:integer --></GroupID> </FaceGroup>

9.18.2 /FaceGroup/Modify

/FaceGroups/Modify	General Resource v1.0
--------------------	-----------------------

PUT		Viewer
Description	If is used to modify the info of face library	
Query	None	
Inbound Data	FaceGroup	
Success Return	ResponseStatus	
Notes:		

Input XML	
<?xml version = "1.0" encoding = "utf-8"?> <FaceGroup> <GroupID><!-- xs:string,the value is unique --></GroupID> <GroupName><!-- xs:string,the max length is 32--></GroupName> </FaceGroup>	

9.18.3 /FaceGroup/Delete

/FaceGroups/Delete		General Resource v1.0
PUT		Viewer
Description	It is used to delete a face library	
Query	None	
Inbound Data	FaceGroup	
Success Return	ResponseStatus	
Notes:		

Input XML	
<?xml version = "1.0" encoding = "utf-8"?> <FaceGroup> <GroupID><!-- xs:integer,the value is unique --></GroupID> <DelBindFace><!-- xs:boolean--></DelBindFace> </FaceGroup>	

9.18.4 /FaceGroup/QueryAll

/FaceGroups/QueryAll		General Resource v1.0
PUT		Viewer
Description	It is used to query all the face groups	
Query	None	
Inbound Data	None	
Success Return	ResponseStatus	

Notes:

CreateTime: Accept and return the string of date which format is ISO 8601

Output XML

```
<?xml version = "1.0" encoding = "utf-8"?>
<FaceGroups>
  <FaceGroup>
    <GroupID><!-- xs:integer,the value is unique --></GroupID>
    <GroupName><!-- xs:string,the max length is 32--></GroupName >
    <CreateTime><!-- xs:datetime,"20040503T173008+08" --></CreateTime>
    <PersonInfoCount><!-- xs:integer --></PersonInfoCount>
    <AvailableStatus><!--xs:string,"available,unavailable" --></AvailableStatus>
  </FaceGroup>
</FaceGroups>
```

9.18.5 /FaceGroups/QueryByGroupID

/FaceGroups/QueryByGroupID		General Resource v1.0
PUT		Viewer
Description		It is used to query the info of face group by groupID
Query		None
Inbound Data		None
Success Return		ResponseStatus
Notes:		

Input XML

```
<?xml version = "1.0" encoding = "utf-8"?>
<FaceGroup>
  <GroupID><!-- xs:integer,the value is unique --></GroupID>
</FaceGroup>
```

Output XML

```
<?xml version = "1.0" encoding = "utf-8"?>
<FaceGroup>
  <GroupID><!-- xs:integer,the value is unique --></GroupID>
  <GroupName><!-- xs:string,the max length is 32--></GroupName >
  <CreateTime><!-- xs:datetime,"20040503T173008+08" --></CreateTime>
  <PersonInfoCount><!-- xs:integer --></PersonInfoCount>
  <AvailableStatus><!--xs:boolean --></AvailableStatus>
</FaceGroup>
```

9.18.6 /FaceGroups/QueryWorkState

/FaceGroups/QueryWorkState		General Resource v1.0
PUT		Viewer
Description		It is used to query the work state of recognize module.
Query		None
Inbound Data		None
Success Return		ResponseStatus
Notes:		

Output XML

```
<?xml version = "1.0" encoding = "utf-8"?>
<FaceReco>
    <WorkState><!--xs:string,"Initializing,normal,recovering,modelling" --></WorkState>
    <ErrorCode><!--xs:integer--></ErrorCode>
</FaceReco>
```

9.18.7 /FaceGroup/CheckPersonInfo

/FaceGroup/CheckPersonInfo		General Resource v1.0
PUT		Viewer
Description		It is used to confirm the legitimacy of the person info
Query		None
Inbound Data		PersonInfo
Success Return		ResponseStatus
Notes:		
Use the “#” to depart provice(state) and city(block).		
The field “PersonID” will be “0” while adding person info ,more than 0 while modifying person info.		

Input XML

```
<?xml version = "1.0" encoding = "utf-8"?>
<PersonInfo>
    <PersonID><!--xs:integer --></PersonID>
    <Name><!-- xs:string, this max length is 32 --></Name>
    <Sex><!-- xs:string, "male,female" --></Sex>
    <CertificateType><!-- xs:string, "passport,IC"--></CertificateType>
```

```

<CertificateID><!-- xs:string,the max length is 32--></CertificateID>
<Country><!-- xs:string,the max length is 64 --></Country>
<Address><!-- xs:string ,the mas length is 256--></Address>
<Birthday><!-- xs:string,the max length is 32 --></Birthday>
<UniqueID><!-- xs:string,the max length is 32 --></UniqueID>
</PersonInfo>

```

9.18.9 /FaceGroup/AddPersonInfoAndFaceImage

/FaceGroup/AddPersonInfoAndFaceImage		General Resource v1.0		
PUT		Viewer		
Description	It is used to add the person info and image info			
Query	None			
Inbound Data	PersonInfo+binary data of image			
Success Return	ResponseStatus			
Notes:				
<p style="color: red;">Inbound Data use the mode of form submission, the last parameter must be binary data of image, the text parameter in XMLmode just use for display, the format od data submission keep submission.</p>				
<p style="color: black;">Use the “#” to depart provice(state) and city(block).</p>				
<p style="color: black;">The PersonID cannot be passed when the field UniqueID is passed, and if two parameters are passed, the interface verifies that the two parameters must be matched to the same record</p>				
<p style="color: black;">If the return code is 0x100F, the reponse xml will carry the “PersonID” and “UniqueID” field:</p>				
<p style="color: black;">The response xml like this:</p>				
<pre> <ResponseStatus> <requestURL><!-- xs:string--></requestURL> <statusCode><!-- xs:interger,the value is unique--></statusCode> <PersonID><!-- xs:interger,the value is unique--></PersonID> <UniqueID><!-- xs:string--></UniqueID> </ResponseStatus> </pre>				

Input XML
-----7e3172a51238
Content-Disposition: form-data; name="IgnoreError"
false
-----7e3172a51238
Content-Disposition: form-data; name="Name"
ceshi
-----7e3172a51238
Content-Disposition: form-data; name="Sex"

male
-----7e3172a51238
Content-Disposition: form-data; name="CertificateType"

passport
-----7e3172a51238
Content-Disposition: form-data; name="CertificateID"

2324
-----7e3172a51238
Content-Disposition: form-data; name="GroupID"

8
-----7e3172a51238
Content-Disposition: form-data; name="Country"

China
-----7e3172a51238
Content-Disposition: form-data; name="Address"

Hubei#Wuhan
-----7e3172a51238
Content-Disposition: form-data; name="Birthday"

20191008
-----7e3172a51238
Content-Disposition: form-data; name="FacelImageID"

xxxxxx
-----7e3172a51238
Content-Disposition: form-data; name="UniqueId"

1
-----7e3172a51238
Content-Disposition: form-data; name="file"; filename=""
Content-Type: image/jpeg

//Image binary Data:
-----7e3172a51238--

Sample:
-----7e3172a51238
Content-Disposition: form-data; name="IgnoreError"

false
-----7e3172a51238
Content-Disposition: form-data; name="Name"

ceshi
-----7e3172a51238
Content-Disposition: form-data; name="Sex"

male
-----7e3172a51238
Content-Disposition: form-data; name="CertificateType"

passport
-----7e3172a51238
Content-Disposition: form-data; name="CertificateID"

2324
-----7e3172a51238
Content-Disposition: form-data; name="GroupID"

8
-----7e3172a51238
Content-Disposition: form-data; name="Country"

China
-----7e3172a51238
Content-Disposition: form-data; name="Address"

Hubei#Wuhan
-----7e3172a51238
Content-Disposition: form-data; name="Birthday"

20191008
-----7e3172a51238
Content-Disposition: form-data; name="FaceImageID"

xxxxxx
-----7e3172a51238
Content-Disposition: form-data; name="UniqueId"

1
-----7e3172a51238
Content-Disposition: form-data; name="file"; filename=""

Content-Type: image/jpeg

//Image binary Data:

-----7e3172a51238--

9.18.10 /FaceGroup/DeletePersonList

/FaceGroup/DeletePersonList	General Resource v1.0
PUT	Viewer
Description	It is used to delete person info
Query	None
Inbound Data	PersonInfoList
Success Return	ResponseStatus
Notes:	
The PersonID cannot be passed when the field UniqueID is passed, and if two parameters are passed, the interface verifies that the two parameters must be matched to the same record	

Input XML

```
<PersonInfoList>
  <PersonInfo>
    <GroupId><!-- xs:integer, the value is unique --></GroupId>
    <PersonId><!-- xs:integer, the value is unique --></PersonId>
    <IsDeletePicture><!-- xs:boolean --></IsDeletePicture>
    <UniqueId><!-- xs:string, the max length is 32 --></UniqueId>
    <ForceDel><!-- xs:boolean --></ForceDel>//Completely delete
  </PersonInfo>
</PersonInfoList>
```

9.18.11 /FaceGroup/UnBindPersonInfo

/FaceGroup/UnBindPersonInfo	General Resource v1.0
PUT	Viewer
Description	It is used to unbind the person and face group
Query	None
Inbound Data	PersonInfoList
Success Return	ResponseStatus
Notes:	
The PersonID cannot be passed when the field UniqueID is passed, and if two parameters are passed, the interface verifies that the two parameters must be matched to the same record	

Input XML	
<PersonInfoList> <PersonInfo> <DstGroupID><!-- xs:integer,the value is unique --></DstGroupID> <PersonID><!-- xs:integer,the value is unique --></PersonID> <UniqueId><!-- xs:string,the max length is 32 --></UniqueId> </PersonInfo> </PersonInfoList>	

9.18.12 /FaceGroup/BindPersonInfo

/FaceGroup/BindPersonInfo	General Resource v1.0
PUT	Viewer
Description	It is use to bind the person and face group
Query	None
Inbound Data	PersonInfoList
Success Return	ResponseStatus
Notes:	
The PersonID cannot be passed when the field UniqueID is passed, and if two parameters are passed, the interface verifies that the two parameters must be matched to the same record	

Input XML	
<PersonInfoList> <PersonInfo> <SrcGroupID><!-- xs:integer,the value is unique --></SrcGroupID> <DstGroupID><!-- xs:integer,the value is unique --></DstGroupID> <PersonID><!-- xs:integer,the value is unique --></PersonID> <UniqueId><!-- xs:string,the max length is 32 --></UniqueId> </PersonInfo> </PersonInfoList>	

9.18.13 /FaceGroup/ModifyPersonInfo

/FaceGroup/ModifyPersonInfo	General Resource v1.0
PUT	Viewer
Description	It is used to modify the person info.
Query	None
Inbound Data	PersonInfo
Success Return	ResponseStatus

Notes:

Use the “#” to depart provice(state) and city(block).

The PersonID cannot be passed when the field UniqueID is passed, and if two parameters are passed, the interface verifies that the two parameters must be matched to the same record

Input XML

```
<?xml version = "1.0" encoding = "utf-8"?>
<PersonInfo>
    <PersonID><!-- ro,xs:intreger --></PersonID>
    <Name><!-- xs:string, this max length is 32 --></Name>
    <Sex><!-- xs:string, "male,female" --></Sex>
    <CertificateType><!--xs:string,"passport,IC,other"--></CertificateType>
    <CertificateID><!-- xs:string,the max length is 32--></CertificateID>
    <Country><!-- xs:string,the max length is 64 --></Country>
    <Address><!-- xs:string ,the mas length is 256--></Address>
    <Birthday><!-- xs:string,the max length is 32,"20190610T020202" --></Birthday>
    <UniqueID><!-- xs:string,the max length is 32 --></UniqueID>
</PersonInfo>
```

9.18.14 /FaceGroup/UpdateFaceImageInfoByPerson

/FaceGroup/UpdateFaceImageInfoByPerson	General Resource v1.0
PUT	Viewer
Description	It is used to update the face image of person(they are binded.)
Query	None
Inbound Data	PersonFaceImageInfo + binary data of image
Success Return	ResponseStatus
Notes:	
Inbound Data use the mode of form submission, the last parameter must be binary data of image, the text parameter in XMLmode just use for display, the format od data submission keep submission.	
The PersonID cannot be passed when the field UniqueID is passed, and if two parameters are passed, the interface verifies that the two parameters must be matched to the same record	

Input XML

```
-----7e4200f1ab117a
Content-Disposition: form-data; name="Name"

Tom
-----7e4200f1ab117a
Content-Disposition: form-data; name="Sex"
```

male
-----7e4200f1ab117a
Content-Disposition: form-data; name="CertificateType"

IC
-----7e4200f1ab117a
Content-Disposition: form-data; name="CertificateID"

0
-----7e4200f1ab117a
Content-Disposition: form-data; name="PersonID"

16
-----7e4200f1ab117a
Content-Disposition: form-data; name="Country"

China
-----7e4200f1ab117a
Content-Disposition: form-data; name="Address"

Hubei#Wuhan
-----7e4200f1ab117a
Content-Disposition: form-data; name="Birthday"

20191008
-----7e4200f1ab117a
Content-Disposition: form-data; name="FaceImageID"

1
-----7e4200f1ab117a
Content-Disposition: form-data; name="file"; filename="53bff6693d82afbfeaff26f3f83068c5.jpg"
Content-Type: image/jpeg

xxxxxx
-----7e3172a51238
Content-Disposition: form-data; name="UniqueId"

//Image Binary Data:
-----7e4200f1ab117a--

9.18.15 /FaceGroup/UpdatePersonInfoAndFaceImage

/FaceGroup/UpdatePersonInfoAndFaceImage	General Resource v1.0
PUT	Viewer
Description	It is used to update person info and face image (they are binded.)
Query	None
Inbound Data	PersonInfo+ImageBinaryData
Success Return	ResponseStatus
Notes:	
Inbound Data use the mode of form submission, the last parameter must be binary data of image, the text parameter in XMLmode just use for display, the format od data submission keep submission.	
Use the “#” to depart provice(state) and city(block).	
The PersonID cannot be passed when the field UniqueID is passed, and if two parameters are passed, the interface verifies that the two parameters must be matched to the same record	

Input XML
-----7e4200f1ab117a Content-Disposition: form-data; name="Name" Tom -----7e4200f1ab117a Content-Disposition: form-data; name="Sex" male -----7e4200f1ab117a Content-Disposition: form-data; name="CertificateType" IC -----7e4200f1ab117a Content-Disposition: form-data; name="CertificateID" 0 -----7e4200f1ab117a Content-Disposition: form-data; name="PersonID" 16 -----7e4200f1ab117a Content-Disposition: form-data; name="Country" China -----7e4200f1ab117a

Content-Disposition: form-data; name="Address"

Hubei#Wuhan
-----7e4200f1ab117a
Content-Disposition: form-data; name="Birthday"

20191008
-----7e4200f1ab117a
Content-Disposition: form-data; name="FaceImageID"

xxxxxxxx
-----7e3172a51238
Content-Disposition: form-data; name="UniqueId"

1
-----7e4200f1ab117a
Content-Disposition: form-data; name="file"; filename="53bff6693d82afbfeaff26f3f83068c5.jpg"
Content-Type: image/jpeg

//Image Binary Data:

-----7e4200f1ab117a--

Sample:

```
POST /FaceGroup/UpdatePersonInfoAndFaceImage HTTP/1.1\r\n
Host: 10.10.10.133\r\n
Connection: keep-alive\r\n
Content-Length: 41489\r\n
Authorization: Basic YWRtaW46\r\n
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/80.0.3987.163 Safari/537.36\r\n
Content-Type: multipart/form-data; boundary=----WebKitFormBoundaryqxrshB73oobws55\r\n
Accept: */*\r\n
Origin: http://10.10.10.133\r\n
Referer: http://10.10.10.133/face\_database.html\r\n
Accept-Encoding: gzip, deflate\r\n
Accept-Language: zh,en-US;q=0.9,en;q=0.8,zh-CN;q=0.7\r\n
Cookie: language0=7; IsFaceSnapshot=false; IsFaceReco=true; userInfo=YWRtaW46; strem=1;
commandPort=6060; rtspPort=554; isSupportFaceReco=TRUE; plugType=MJPEG\r\n
\r\n
-----7e4200f1ab117a\r\n
Content-Disposition: form-data; name="Name"\r\n
\r\n
Tom\r\n
-----7e4200f1ab117a\r\n
```

```
Content-Disposition: form-data; name="Sex"\r\n\r\nmale\r\n-----7e4200f1ab117a\r\nContent-Disposition: form-data; name="CertificateType"\r\n\r\nIC\r\n-----7e4200f1ab117a\r\nContent-Disposition: form-data; name="CertificateID"\r\n\r\n0\r\n-----7e4200f1ab117a\r\nContent-Disposition: form-data; name="PersonID"\r\n\r\n16\r\n-----7e4200f1ab117a\r\nContent-Disposition: form-data; name="Country"\r\n\r\nChina\r\n-----7e4200f1ab117a\r\nContent-Disposition: form-data; name="Address"\r\n\r\nHubei#Wuhan\r\n-----7e4200f1ab117a\r\nContent-Disposition: form-data; name="Birthday"\r\n\r\n20191008\r\n-----7e4200f1ab117a\r\nContent-Disposition: form-data; name="FaceImageID"\r\n\r\nxxxxxxxx\r\n-----7e3172a51238\r\nContent-Disposition: form-data; name="UniqueID"\r\n\r\n\r\n-----7e4200f1ab117a\r\nContent-Disposition: form-data; name="file";\r\nfilename="53bff6693d82afbfeaff26f3f83068c5.jpg"\r\nContent-Type: image/jpeg\r\n\r\n//Image Binary Data:\r\n-----7e4200f1ab117a--\r\n
```

9.18.16 /FaceGroup/QueryPersonInfoListCount

/FaceGroup/QueryPersonInfoListCount	General Resource v1.0
PUT	Viewer
Description	It is used to query the count of person in a group
Query	None
Inbound Data	PersonInfoFilter
Success Return	ResponseStatus or PersonInfoList
Notes: The field Name, CertificateID, Country, Address can be empty, Use the “#” to depart province(state) and city(block). The field <Name> support fuzzy query, use “*” to replace character	

Input XML
<PersonInfoFilter> <GroupID><!-- xs:integer, the value is unique, -1 is all --></GroupID> <Name><!-- xs:string --></Name> <Sex><!-- xs:string, "none, male, female" --></Sex> <CertificateType><!-- xs:string, "none, passport, IC" --></CertificateType> <CertificateID><!-- xs:string, the max length is 32 --></CertificateID> <Country><!-- xs:string, the max length is 64 --></Country> <Address><!-- xs:string, the max length is 256 --></Address> <StartBirthday> <!-- xs:string, the max length is 32, "20190610T020202" --> </StartBirthday> <StopBirthday> <!-- xs:string, the max length is 32, "20190610T020202" --> </StopBirthday> </PersonInfoFilter>

Output XML
<PersonInfoList> <PersonCount><!-- xs:integer --></PersonCount> <PersonInfoList>

9.18.17 /FaceGroup/QueryPersonInfoList

/FaceGroup/QueryPersonInfoList	General Resource v1.0
PUT	Viewer

Description	It is used to query all the person info of a group
Query	None
Inbound Data	PersonInfoFilter
Success Return	ResponseStatus or PersonInfoList
Notes:	
The field Name, CertificateID, Country, Address can be empty, Use the “#” to depart provice(state) and city(block).	
The field <Name> support fuzzy query, use “*” to replace character	

Input XML
<pre><PersonInfoFilter> <GroupID><!-- xs:interger,the value is unique, -1 is all --></GroupID> <Name><!-- xs:string --></Name> <Sex><!-- xs:string, "none,male,female" --></Sex> <CertificateType><!-- xs:string,"none,passport,IC"--></CertificateType> <CertificateID><!-- xs:string,the max length is 32--></CertificateID> <Country><!-- xs:string,the max length is 64 --></Country> <Address><!-- xs:string ,the mas length is 256--></Address> <StartBirthday><!-- xs:string,the max length is 32 --></StartBirthday> <StopBirthday><!-- xs:string,the max length is 32 --></StopBirthday> <Pagesize><!--xs:integer --></Pagesize> <Pagenum><!--xs:integer --></Pagenum> </PersonInfoFilter></pre>

Output XML
<pre><PersonInfoList> <PersonInfo> <GroupID><!-- xs:interger,the value is unique --></GroupID> <PersonID><!-- xs:interger,the value is unique --></PersonID> <Name><!-- xs:string, this max length is 32 --></Name> <Sex><!-- xs:string, "male,female" --></Sex> <CertificateType><!-- xs:string,"passport,IC"--></CertificateType> <CertificateID><!-- xs:string,the max length is 32--></CertificateID> <Country><!-- xs:string,the max length is 64 --></Country> <Address><!-- xs:string ,the mas length is 256--></Address> <Birthday><!-- xs:string,the max length is 32 --></Birthday> <FaceImageID><!-- xs:string,"1,2,3" --></FaceImageID> </PersonInfo> <PersonInfoList></pre>

9.18.18 /FaceGroup/QueryPersonImageInfo

/FaceGroup/QueryPersonImageInfo	General Resource v1.0
PUT	Viewer
Description	It is used to query the image info which bind to person by person ID.
Query	None
Inbound Data	PersonFacelImageInfo
Success Return	ResponseStatus or image info
Notes:	
The PersonID cannot be passed when the field UniqueID is passed, and if two parameters are passed, the interface verifies that the two parameters must be matched to the same record	

Input XML

```
<?xml version = "1.0" encoding = "utf-8"?>
<PersonFacelImageInfo>
    <PersonID><!-- xs:integer,the value is unique --></PersonID>
    <PictureID><!-- xs:integer,"0,1,2" --></ PictureID>
    <UniqueID><!-- xs:string,the max length is 32 --></UniqueID>
</PersonFacelImageInfo>
```

9.18.19 /FaceGroup/QueryPersonInfoByPersonID

/FaceGroup/QueryPersonInfoByPersonID	General Resource v1.0
PUT	Viewer
Description	It is used to query person info by person ID
Query	None
Inbound Data	PersonInfoFilter
Success Return	ResponseStatus or PersonInfoList
Notes:	

Input XML

```
<PersonInfoParam>
    <GroupID><!-- xs:integer,the value is unique --></GroupID>
    <PersonID><!-- xs:integer,the value is unique --></PersonID>
</PersonInfoParam>
```

Output XML

```
<PersonInfo>
    <GroupID><!-- xs:integer,the value is unique --></GroupID>
    <PersonID><!-- xs:integer,the value is unique --></PersonID>
```

```

<Name><!-- xs:string, this max length is 32 --></Name>
<Sex><!-- xs:string, "male,female" --></Sex>
<CertificateType><!-- xs:string,"passport,IC"--></CertificateType>
<CertificateID><!-- xs:string,the max length is 32--></CertificateID>
<Country><!-- xs:string,the max length is 64 --></Country>
<Address><!-- xs:string ,the mas length is 256--></Address>
<Birthday><!-- xs:string,the max length is 32 --></Birthday>
<FaceImageID><!-- xs:string,"1,2,3" --></FaceImageID>
</PersonInfo>

```

9.18.20 /FaceGroup/ImagePersonMap

/FaceGroup/ ImagePersonMap	General Resource v1.0
GET	Viewer
Description	It is user to query the person and image info that corresponded.
Query	None
Inbound Data	None
Success Return	ResponseStatus or ImagePersonMapList
PUT	Operator
Description	It is user to set the person and image info that corresponded.
Query	None
Inbound Data	ImagePersonMapList
Success Return	ResponseStatus
Notes:	

ImagePersonMapList XML

```

<?xml version="1.0" encoding="utf-8"?>
<ImagePersonMapList>
    <ImagePersonMap>
        <ItemIndex><!--ro,req,xs:string--></ItemIndex>
        <PersonName><!--ro,req,xs:string--></PersonName>
        <ImageName><!--ro,req,xs:string--></ImageName>
        <Remark><!--ro,req,xs:boolean--></Remark>
    </ImagePersonMap>
</ImagePersonMapList>

```

9.18.21 /FaceGroup/RemoveImagePersonMap

/FaceGroup/RemoveImagePersonMap	General Resource v1.0
PUT	Operator

Description	It is user to remove the person and image info that corresponded.
Query	None
Inbound Data	ImagePersonMapList
Success Return	ResponseStatus
Notes:	

ImagePersonMapList XML

```
<?xml version="1.0" encoding="utf-8"?>
<ImagePersonMapList>
    <ImagePersonMap>
        <ItemIndex><!--ro,req,xs:string--></ItemIndex>
    </ImagePersonMap>
</ImagePersonMapList>
```

9.18.22 /FaceGroup/ChannelID/FaceBrightness

/FaceGroup/ChannelID/FaceBrightness		General Resource v1.0
GET		Viewer
Description		Get face brightness
Query		None
Inbound Data		None
Success Return		ResponseStatus or FaceGroup
SET		Viewer
Description		Set face brightness
Query		None
Inbound Data		FaceGroup
Success Return		ResponseStatus
Notes:		The PersonID cannot be passed when the field UniqueID is passed, and if two parameters are passed, the interface verifies that the two parameters must match the same record

FaceGroup Get XML

```
<?xml version="1.0" encoding="utf-8"?>
<FaceGroup>
    <ChannelID><!--ro,req,xs:integer --></ChannelID>
    <FaceBrightness><!--ro,req,xs:integer:(1-100,default:50)--></FaceBrightness>
</FaceGroup>
```

FaceGroup Put XML

```
<?xml version="1.0" encoding="utf-8"?>
<FaceGroup>
    <FaceBrightness><!--ro,req,xs:integer:(1-100,default:50)--></FaceBrightness>
</FaceGroup>
```

9.19 /FaceReco

9.19.1 /FaceReco/ChannelID/RecoRuleList

/FaceReco/ChannelID/RecoRuleList	General Resource	v1.0
GET	Viewer	
Description	It is used to get the rule list of recognition.	
Query	None	
Inbound Data	None	
Success Return	ResponseStatus or RecoRuleList	
Notes:	Each channel support max 4 rule.	


```

<Enable><!--req, xs:boolean--></Enable>
<SnapshotMask><!--req, xs:string, " 1111111111111111"--></SnapshotMask>
</Snapshot>
<Record>
    <Enable><!--req, xs:boolean--></Enable>
    <RecordMask><!--req, xs:string, " 1111111111111111"--></RecordMask>
</Record>
<PTZ>
    <Enable><!--req, xs:boolean--></Enable>
    <PTZActionList>
        <PTZAction Version="1.0">
            <ptzChannelID><!--req, xs:string --></ptzChannelID>
            <ActionName>
                <!-- req, xs:string,"none,preset, pattern, patrol" -->
            </ActionName>
            <ActionNum><!--req, xs:integer, depend on <ActionName>--></ActionNum>
        </PTZAction>
    </PTZActionList>
</PTZ>
</Trigger>
</RecoRule>
</RecoRuleList>

```

9.19.2 /FaceReco/ChannelID/RecoRuleList

/FaceReco/ChannelID/RecoRuleList		General Resource v1.0
PUT		Viewer
Description	It is used to set the rules of recognition.	
Query	None	
Inbound Data	RecoRuleList	
Success Return	ResponseStatus	
Notes:		

Input XML
<?xml version="1.0" encoding="utf-8"?> <RecoRuleList> <RecoRule> <Enable><!--req, xs:boolean--></Enable> <RecognitionRule> <!--xs:string, "Comparison pass,Comparison fail" --> </RecognitionRule> <RecoThresholdScheduleList> </RecoRule> </RecoRuleList>

```

<RecoThresholdSchedule>
    <StartTime><!-- xs:datetime,"020301"--></StartTime>
    <StopTime><!-- xs:datetime," 020301"--></StopTime>
    <RecoThreshold><!-- xs:integer,0-100--></RecoThreshold>
</RecoThresholdSchedule>
</RecoThresholdScheduleList>
<CompareLimit><!-- xs:string,default is 1,the max is 5--></CompareLimit>
<FaceGroupList>
    <FaceGroup>
        <GroupID><!--xs:integer,the value is unique--></GroupID>
        <GroupName><!--xs:string,the max length is 32 --></GroupName>
    </FaceGroup>
</FaceGroupList>
<Schedule>
    <AllDay><!--req,xs:boolean--></AllDay>
    <TimeBlockList>
        <TimeBlock_0>
<--!req,xs:string,"10000000000000000000000000000000100000000000000000000000000000001">
        </TimeBlock_0>
        <TimeBlock_1>
<--!req,xs:string,"10000000000000000000000000000000100000000000000000000000000000001">
        </TimeBlock_1>
        <TimeBlock_2>
<--!req,xs:string,"10000000000000000000000000000000100000000000000000000000000000001">
        </TimeBlock_2>
        <TimeBlock_3>
<--!req,xs:string,"10000000000000000000000000000000100000000000000000000000000000001">
        </TimeBlock_3>
        <TimeBlock_4>
<--!req,xs:string,"10000000000000000000000000000000100000000000000000000000000000001">
        </TimeBlock_4>
        <TimeBlock_5>
<--!req,xs:string,"10000000000000000000000000000000100000000000000000000000000000001">
        </TimeBlock_5>
        <TimeBlock_6>
<--!req,xs:string,"10000000000000000000000000000000100000000000000000000000000000001">
        </Block_6>
    </TimeBlockList>
</Schedule>
<Trigger>
    <NotifyAMS>
        <Enable><!--req,xs:boolean--></Enable>
    </NotifyAMS>
    <BeepAlert>

```

```
<Enable><!--req, xs:boolean--></Enable>
</BeepAlert>
<FullScreen>
    <Enable><!--req, xs:boolean--></Enable>
</FullScreen>
<Mail>
    <Enable><!--req, xs:boolean--></Enable>
</Mail>
<Ftp Version="1.0">
    <Enable><!--req, xs:boolean--></Enable>
</Ftp>
<Push Version="1.0">
    <Enable><!--req, xs:boolean--></Enable>
</Push>
<AlarmOut>
    <Enable><!--req, xs:boolean--></Enable>
    <AlarmOutMask><!--req, xs:string, "1111111111111111"--></AlarmOutMask>
</AlarmOut>
<Snapshot>
    <Enable><!--req, xs:boolean--></Enable>
    <SnapshotMask><!--req, xs:string, "1111111111111111"--></SnapshotMask>
</Snapshot>
<Record>
    <Enable><!--req, xs:boolean--></Enable>
    <RecordMask><!--req, xs:string, "1111111111111111"--></RecordMask>
</Record>
<PTZ>
    <Enable><!--req, xs:boolean--></Enable>
    <PTZActionList>
        <PTZAction Version="1.0">
            <ptzChannelID><!--req, xs:string --></ptzChannelID>
            <ActionName>
                <!-- req, xs:string, "none,preset, pattern, patrol" -->
            </ActionName>
            <ActionNum><!--req, xs:integer, depend on <ActionName>--></ActionNum>
        </PTZAction>
    </PTZActionList>
</PTZ>
</Trigger>
</RecoRule>
</RecoRuleList>
```

9.19.3 /FaceRecognition/QueryRecordCount

/FaceRecognition/QueryRecordCount	General Resource v1.0
PUT	Viewer
Description	It is used to query the count of records.
Query	None
Inbound Data	FaceRecognition
Success Return	ResponseStatus or RecognitionRecordList
Notes:	
	Time format: yyyyMMddThhmmss

Input XML

```
<FaceRecognitionFilter>
    <GroupID><!--xs:integer,the value is unique--></GroupID> //search in all face library
when value is -1
    <StartTime><!-- xs:datetime,"20040503T173008" --></StartTime>
    <StopTime><!-- xs:datetime,"20040503T173008" --></StopTime>
    <RecognitionResultType>
        <xs:string,"all,Comparison pass,Comparison fail,Failure of biopsy">
    </RecognitionResultType>
</FaceRecognitionFilter>
```

Output XML

```
<RecognitionRecord>
    <RecognitionRecordCount><!--xs:interger--></RecognitionRecordCount>
</RecognitionRecord>
```

9.19.4 /FaceRecognition/QueryRecordList

/FaceRecognition/QueryRecordList	General Resource v1.0
PUT	Viewer
Description	It is used to query the history records of recognition
Query	None
Inbound Data	FaceRecognition
Success Return	ResponseStatus or RecognitionRecordList
Notes:	

Input XML

```
<FaceRecognitionFilter>
    <GroupID><!--xs:integer,the value is unique--></GroupID> // search in all face library
```

```

when value is -1
    <StartTime><!-- xs:datetime,"20040503T173008+08" --></StartTime>
    <StopTime><!-- xs:datetime,"20040503T173008+08" --></StopTime>
    <Pagesize><!--xs:integer --><Pagesize>
    <Pagenum><!--xs:integer --><Pagenum>
    < IsHasPath><!--xs:integer --></IsHasPath>
    <RecognitionResultType>
        <xs:string,"all,Comparison pass,Comparison fail,Failure of biopsy">
    </RecognitionResultType>
</FaceRecognitionFilter>

```

Output XML

```

<RecognitionRecordList>
    <RecognitionRecord>
        <LogID><!--xs:integer,the value is unique--></LogID>
        <PersonID><!-- xs:integer --></PersonID>
        <GroupName><!--xs:string,the max length is 32 --></GroupName>
        <Time><!-- xs:datetime,"20040503T173008+08" --></Time>
        <Pass><!--xs:boolean--><Pass>
        <SnapshotPath><!-- xs:string, --></SnapshotPath>
        <Similar><!-- xs:integer,0-100 --></Similar>
    </RecognitionRecord>
</RecognitionRecordList>

```

9.19.5 /FaceRecognition/DetailByRecognitionRecord

/FaceRecognition/DetailByRecognitionRecord		General Resource v1.0
PUT		Viewer
Description	It is used to query the detail of face recognition.	
Query	None	
Inbound Data	RecognitionInfo	
Success Return	ResponseStatus or PersonInfo	
Notes:	The field <Name> support fuzzy query, use “*” to replace character	

Input XML

```

<RecognitionInfo>
    <LogID><!-- xs:integer --></LogID>
    <IsPicture><!-- xs:boolean --></IsPicture>
</RecognitionInfo>

```

Output XML
< RecognitionInfo> <Name><!-- xs:string, this max length is 32 --></Name> <Sex><!-- xs:string, "male,female" --></Sex> <CertificateType><!-- xs:string,"passport,IC"--></CertificateType> <CertificateID><!-- xs:string,the max length is 32--></CertificateID> <PersonID><!-- xs:integer --></PersonID> <Country><!-- xs:string,the max length is 64 --></Country> <Address><!-- xs:string ,the mas length is 256--></Address> <Birthday><!-- xs:string,the max length is 32 --></Birthday> <RecoResult><!--xs:boolean--></RecoResult> < RecognitionInfo>

9.19.6 /FaceRecognition/SnapshotByRecognitionRecord

/FaceRecognition/SnapshotByRecognitionRecord	General Resource v1.0
PUT	Viewer
Description	It is used to get the path of snapshot.
Query	None
Inbound Data	RecognitionInfo
Success Return	ResponseStatus or http+binary data of image
Notes:	

Input XML
<RecognitionInfo> <SnapshotPath><!-- xs:string --><SnapshotPath> </RecognitionInfo>

9.19.7

/FaceRecognition/RecoResultImageByRecognitionRecord

/FaceRecognition/RecoResultImageByRecognitionRecord	General Resource v1.0
PUT	Viewer
Description	It is used to get the result of recognition
Query	None
Inbound Data	RecognitionInfo
Success Return	ResponseStatus or http+binary data of image
Notes:	

Input XML

```
<RecognitionInfo>
    <LogID><!-- xs:integer --><LogID>
</RecognitionInfo>
```

9.19.8 /FaceRecognition/Ability

/FaceRecognition/Ability		General Resource v1.0
GET		Viewer
Description	It is used to get the ability of face recognition.	
Query	None	
Inbound Data	None	
Success Return	ResponseStatus	
Notes:		

Output XML

```
<RecognitionAbility>
    <isSupportFaceReco><!-- xs:boolean --></isSupportFaceReco>
    <FaceGroupSum><!--xs:interger--></FaceGroupSum>
    <PersonPerFaceGroup><!--xs:interger--></PersonPerFaceGroup>
    <PersonByAllFaceGroup><!--xs:interger--></PersonByAllFaceGroup>
    <PersonImageSize><!--xs:interger,the unit is Byte,default is 256K--></PersonImageSize>
    <FaceSnapshot>
        <Max>
            <Width><!--xs:interger,0-10000--></Width>
            <Height><!--xs:interger,0-10000--></Height>
        </Max>
        <Min>
            <Width><!--xs:interger,0-10000--></Width>
            <Height><!--xs:interger,0-10000--></Height>
        </Min>
        <MaxResolution>
            <Width><!--xs:interger--></Width>
            <Height><!--xs:interger--></Height>
        </MaxResolution>
    </FaceSnapshot>
    <TrackBox>
        <IsSupportMainStream><!--xs:boolean--></IsSupportMainStream>
        <IsSupportSubStream><!--xs:boolean--></IsSupportSubStream>
        <IsSupportSecSubStream><!--xs:boolean--></IsSupportSecSubStream>
```

```

</TrackBox>
</RecognitionAbility>

```

9.19.9 /FaceRecognition/FaceLivenessStatus

/FaceRecognition/FaceLivenessStatus		General Resource v1.0
GET		Viewer
Description	It is use to get the config of faceliveness	
Query	None	
Inbound Data	None	
Success Return	ResponseStatus or URL	
PUT		Viewer
Description	It is use to set the config of faceliveness	
Query	None	
Inbound Data	URL	
Success Return	ResponseStatus	
Notes:		

Motion URL XML

```

<?xml version="1.0" encoding="UTF-8" ?>
<FaceLivenessStatus>
    <Enable><!--xs:boolean:"true", "false"--></Enable>
    <Score><!--xs:float:0-1--></Score>
</FaceLivenessStatus>

```

9.19.10 /FaceReco/ChannelID/BaseConfig

/FaceReco/ChannelID/BaseConfig		General Resource v1.0
GET		Viewer
Description	Get face base config	
Query	None	
Inbound Data	None	
Success Return	FaceBaseConfig	
PUT		Viewer
Description	Set face base config	
Query	None	
Inbound Data	FaceBaseConfig	
Success Return	ResponseStatus	
Notes:		

FaceBaseConfig XML

```
<FaceBaseConfig>
    //enable: true, false
    <EnableRecognition><!--xs:boolean--></EnableRecognition>
    //gate open mode: 0-not supported, 1-face recognition , 2-face temperature normal, 3- face
recognition + face temperature normal
    <OpenDoorMode><!--xs:Intreger--></OpenDoorMode>
</FaceBaseConfig>
```

9.20 /Face

9.20.1 /Face/ChannelID/DefaultFaceRegionInfo

/Face/ChannelID/DefaultFaceRegionInfo		General Resource v1.0
GET		Viewer
Description	It is used to get the detect region, default max face size and default min face size	
Query	None	
Inbound Data	None	
Success Return	ResponseStatus	
Notes:		

Output XML

```
<?xml version="1.0" encoding="utf-8"?>
<DefaultFaceRegionInfo>
    <DetectRegion>
        <TopLeftX><!—dep,xs:intreger--></TopLeftX>
        <TopLeftY><!—dep,xs:intreger--></TopLeftY>
        <BottomRightX><!—dep,xs:intreger--></BottomRightX>
        <BottomRightY><!—dep,xs:intreger--></BottomRightY>
    </DetectRegion>
    <MaxFaceSize>
        <Width><!—dep,xs:intreger--></Width>
        <Height><!—dep,xs:intreger--></Height>
    </MaxFaceSize>
    <MinFaceSize>
        <Width><!—dep,xs:intreger--></Width>
        <Height><!—dep,xs:intreger--></Height>
    </MinFaceSize>
</DefaultFaceRegionInfo>
```

9.20.2 /Face/ChannelID/DetectRegion

/Face/ChannelID/DetectRegion	General Resource v1.0
GET	Viewer
Description	It is used to get the region config of face detect
Query	None
Inbound Data	None
Success Return	FaceDetectRegion
PUT	Viewer
Description	It is used to set the region config of face detect
Query	None
Inbound Data	FaceDetectRegion
Success Return	ResponseStatus
Notes:	

FaceDetectRegion XML

```
<FaceDetectRegion>
    <Region>
        <TopLeftX><--xs:integer,"0~10000"--></TopLeftX>
        <TopLeftY><--xs:integer,"0~10000"--></TopLeftY>
        <BottomRightX><--xs:integer,"0~10000"--></BottomRightX>
        <BottomRightY><--xs:integer,"0~10000"--></BottomRightY>
    </Region>
</FaceDetectRegion>
```

9.20.3 /Face/ChannelID/Config

/Face/ChannelID/Config	General Resource v1.0
GET	Viewer
Description	It is used to get the config of face detect
Query	None
Inbound Data	None
Success Return	FaceConfig
PUT	Viewer
Description	It is used to set the config of face detect
Query	None
Inbound Data	FaceConfig
Success Return	ResponseStatus

Notes:

FaceConfig XML

```
<FaceConfig>
    <SnapshotMode><--xs:string,"auto,fast,optimal,custom" --></SnapshotMode>
    <CutoutMode><--xs:string,"face_only,half_body,whole_body" --></CutoutMode>
    <ModeAuto>
        <SnapshotCount><--xs:integer,1~3--></SnapshotCount>
        <SnapshotInterval><--xs:integer,the unit is ms--></SnapshotInterval>
    </ModeAuto>
    <ModeFast>
        <SnapshotCount><--xs:integer,1~3--></SnapshotCount>
    </ModeFast>
    <ModeOptimal>
        <SnapshotCount><--xs:integer,1~3--></SnapshotCount>
    </ModeOptimal>
    <ModeCustom>
        <SnapshotCount><--xs:integer,1~3--></SnapshotCount>
        <PicQualityThreshold><--xs:integer,0-100--></PicQualityThreshold>
        <ObliqueAngle>
            <.MaxValue><--xs:integer,0-180 --><.MaxValue>
            <.MinValue><--xs:integer,0-180 --><.MinValue>
        </ObliqueAngle>
        <PitchAngle>
            <.MaxValue><--xs:integer,0-180, the unit is angle--><.MaxValue>
            <.MinValue><--xs:integer,0-180, the unit is angle --><.MinValue>
        </PitchAngle>
        <SideAngle>
            <.MaxValue><--xs:integer,0-180, the unit is angle --><.MaxValue>
            <.MinValue><--xs:integer,0-180, the unit is angle --><.MinValue>
        </SideAngle>
        <FuzzyDegree>
            <.MaxValue><--xs:integer,0-100 --><.MaxValue>
            <.MinValue><--xs:integer,0-100 --><.MinValue>
        </FuzzyDegree>
    </ModeCustom>
</FaceConfig>
```

9.20.4 /Face/ChannelID/OverlayInfo

/Face/ChannelID/OverlayInfo		General Resource v1.0
GET		Viewer
Description		It is used to get the overlay info of face detect
Query		None
Inbound Data		None
Success Return		FaceOverlayInfo
PUT		Viewer
Description		It is used to set the overlay info of face detect
Query		None
Inbound Data		FaceOverlayInfo
Success Return		ResponseStatus
Notes:		

FaceConfig XML

```
<FaceOverlayInfo>
    <FaceTrackFrame>
        <EnableFaceTrackFrame><--xs:boolean--></EnableFaceTrackFrame>
        <EnableBackEndSuperposition><--xs:boolean--></ EnableBackEndSuperposition >
    </FaceTrackFrame>
    <EnableFaceStatistcs><--xs:boolean--></EnableFaceStatistcs>
    <FaceTrackFrame_SubStream>
        <EnableFaceTrackFrame><--xs:boolean--></EnableFaceTrackFrame>
        <EnableBackEndSuperposition><--xs:boolean--></ EnableBackEndSuperposition >
    </FaceTrackFrame_SubStream>
    <FaceTrackFrame_SecondSubStream>
        <EnableFaceTrackFrame><--xs:boolean--></EnableFaceTrackFrame>
        <EnableBackEndSuperposition><--xs:boolean--></ EnableBackEndSuperposition >
    </FaceTrackFrame_SecondSubStream>
</FaceOverlayInfo>
```

9.20.5 /Face/ChannelID/ClearFaceOverlayInfo

/Face/ChannelID/ClearFaceOverlayInfo		General Resource v1.0
PUT		Viewer
Description		It is used to clear the overlay info of face detect
Query		None
Inbound Data		None

Success Return	ResponseStatus
Notes:	

9.20.6 /Face/ChannelID/DefaultFaceRegionInfo

/Face/ChannelID/DefaultFaceRegionInfo		General Resource v1.0
GET		Viewer
Description		It is used to get the default face detect region info
Query		None
Inbound Data		None
Success Return		DefaultFaceRegionInfo
Notes:		

DefaultFaceRegionInfo XML

```
<DefaultFaceRegionInfo>
    <DetectRegion>
        <TopLeftX><--xs:Integer--></TopLeftX>
        <TopLeftY><--xs:Integer--></TopLeftY>
        <BottomRightX><--xs:Integer--></BottomRightX>
        <BottomRightY><--xs:Integer--></BottomRightY>
    </DetectRegion>
    <MaxFaceSize>
        <Width><--xs:Integer--></Width>
        <Height><--xs:Integer--></Height>
    </MaxFaceSize>
    <MinFaceSize>
        <Width><--xs:Integer--></Width>
        <Height><--xs:Integer--></Height>
    </MinFaceSize>
</DefaultFaceRegionInfo>
```

9.20.7 /Face/ChannelID/FixedRegionDetect

/Face/ChannelID/FixedRegionDetect	General Resource v1.0
GET	Viewer
Description	It is used to get the config of fixed region detect
Query	None
Inbound Data	None

Success Return	ResponseStatus or FixedRegionDetectConfig
PUT	Operator
Description	It is used to set the config of fixed region detect
Query	None
Inbound Data	FixedRegionDetectConfig
Success Return	ResponseStatus
Notes:	

FixedRegionDetectConfig XML

```
<FixedRegionDetectConfig>
    <RegionModeEnable><!--req, xs:boolean "true", "false"--></RegionModeEnable>
    <RegionMode><!--req, xs:string "global", "local"--></RegionMode>
    <Region>
        <TopLeftX><!--opt, xs:Intenger--></TopLeftX>
        <TopLeftY><!--opt, xs:Intenger--></TopLeftY>
        <BottomRightX><!--opt, xs:Intenger--></BottomRightX>
        <BottomRightY><!--opt, xs:Intenger--></BottomRightY>
    </Region>
</FixedRegionDetectConfig>
```

9.21 /AccessGate

9.21.1 /AccessGate/AddCard

/AccessGate/AddCard	General Resource v1.0
PUT	Operator
Description	It is used to add the access gate card
Query	None
Inbound Data	AccessCardInfoList
Success Return	ResponseStatus
Notes:	

AccessCardInfoList XML

```
<AccessCardInfoList>
    <AccessCardInfo>
        <ID><!--req, xs:Intenger--></ID>
        <CardNumber><!--req, xs:string--></CardNumber>
    </AccessCardInfo>
    ...
</AccessCardInfoList>
```

9.21.2 /AccessGate/DeleteCard

/AccessGate/DeleteCard	General Resource v1.0
PUT	Operator
Description	It is used to delete the access gate card
Query	None
Inbound Data	AccessCardInfoList
Success Return	ResponseStatus
Notes:	

AccessCardInfoList XML

```
<AccessCardInfoList>
  <AccessCardInfo>
    <ID><!--req, xs:Intger--></ID>
    <CardNumber><!--req, xs:string--></CardNumber>
  </AccessCardInfo>
  ...
</AccessCardInfoList>
```

9.21.3 /AccessGate/ModifyCard

/AccessGate/ModifyCard	General Resource v1.0
PUT	Operator
Description	It is used to modify the access gate card
Query	None
Inbound Data	AccessCardInfoList
Success Return	ResponseStatus
Notes:	

AccessCardInfoList XML

```
<AccessCardInfoList>
  <AccessCardInfo>
    <ID><!--req, xs:Intger--></ID>
    <CardNumber><!--req, xs:string--></CardNumber>
  </AccessCardInfo>
  ...
</AccessCardInfoList>
```

9.21.4 /AccessGate/QueryAllCard

/AccessGate/QueryAllCard	General Resource v1.0
Get	Operator
Description	It is used to query all the access gate card info
Query	None
Inbound Data	None
Success Return	ResponseStatus or AccessCardInfoList
Notes:	

AccessCardInfoList XML

```
<AccessCardInfoList>
  <AccessCardInfo>
    <ID><!--req, xs:Intger--></ID>
    <CardNumber><!--req, xs:string--></CardNumber>
  </AccessCardInfo>
  ...
</AccessCardInfoList>
```

9.21.5 /AccessGate/AddPassword

/AccessGate/AddPassword	General Resource v1.0
PUT	Operator
Description	It is used to add the access gate password
Query	None
Inbound Data	AccessPasswordInfoList
Success Return	ResponseStatus
Notes:	

AccessPasswordInfoList XML

```
<AccessPasswordInfoList>
  <AccessPasswordInfo>
    <ID><!--req, xs:Intger--></ID>
    <Password><!--req, xs:string--></Password>
  </AccessPasswordInfo>
  ...
</AccessPasswordInfoList>
```

9.21.6 /AccessGate/DeletePassword

/AccessGate/DeletePassword	General Resource v1.0
PUT	Operator
Description	It is used to delete access gate password
Query	None
Inbound Data	AccessPasswordInfoList
Success Return	ResponseStatus
Notes:	

AccessPasswordInfoList XML

```
<AccessPasswordInfoList>
  <AccessPasswordInfo>
    <ID><!--req,xs:Intreger--></ID>
    <Password><!--req,xs:string--></Password>
  </AccessPasswordInfo>
  ...
</AccessPasswordInfoList>
```

9.21.8 /AccessGate/ModifyPassword

/AccessGate/ModifyPassword	General Resource v1.0
PUT	Operator
Description	If is used to modify access gate password
Query	None
Inbound Data	AccessPasswordInfoList
Success Return	ResponseStatus
Notes:	

AccessPasswordInfoList XML

```
<AccessPasswordInfoList>
  <AccessPasswordInfo>
    <ID><!--req,xs:Intreger--></ID>
    <Password><!--req,xs:string--></Password>
  </AccessPasswordInfo>
  ...
</AccessPasswordInfoList>
```

9.21.9 /AccessGate/QueryAllPassword

/AccessGate/QueryAllPassword	General Resource v1.0
Get	Operator
Description	It is used to query all access gate password
Query	None
Inbound Data	None
Success Return	ResponseStatus or QueryAllPassword
Notes:	

AccessPasswordInfoList XML

```
<AccessPasswordInfoList>
    <AccessPasswordInfo>
        <ID><!--req, xs:Intreger--></ID>
        <Password><!--req, xs:string--></Password>
    </AccessPasswordInfo>
    ...
</AccessPasswordInfoList>
```

9.21.10 /AccessGate/QueryCardNumberByID?ID=xxx

/AccessGate/QueryCardNumberByID?ID=xxx	General Resource v1.0
Get	Viewer
Description	Query card by id
Query	None
Inbound Data	None
Success Return	ResponseStatus or AccessCardInfo
Notes:	

AccessCardInfo XML

```
<AccessCardInfo>
    <ID><!--req, xs:Intreger--></ID>
    <CardNumber><!--req, xs:string--></CardNumber>
</AccessCardInfo>
```

9.21.11 /AccessGate/QueryPasswordByID?ID=xxx

/AccessGate/QueryPasswordByID?ID=xxx	General Resource v1.0
--------------------------------------	-----------------------

Get		Viewer
Description	Query password by id	
Query	None	
Inbound Data	None	
Success Return	ResponseStatus or AccessPasswordInfo	
Notes:		

AccessPasswordInfo XML

```
<AccessPasswordInfo>
    <ID><!--req, xs:integer--></ID>
    <Password><!--req, xs:string--></Password>
</AccessPasswordInfo>
```

9.22 /FaceMaskDetect

9.22.1 /FaceMaskDetect/AlarmConfig

/FaceMaskDetect/AlarmConfig		General Resource v1.0
Get	Viewer	
Description	It is used to get the alarm config of face mask detect	
Query	None	
Inbound Data	None	
Success Return	ResponseStatus or FaceDetectMaskAlarm	
Put	Operator	
Description	It is used to set the alarm config of face mask detect	
Query	None	
Inbound Data	FaceDetectMaskAlarm	
Success Return	ResponseStatus	
Notes:		

FaceDetectMaskAlarm XML

```
<FaceDetectMaskAlarm>
    <AlarmConfig><!--req, xs:string "NoAlarm", "HasMaskAlarm", "NoMaskAlarm"--></AlarmConfig>
    <RegionModeEnable><!--req, xs:boolean "true", "false"--></RegionModeEnable>
    <RegionMode><!--req, xs:string "global", "local"--></RegionMode>
    <Region>
```

```

<TopLeftX><!—opt, xs:Intenger--></TopLeftX>
<TopLeftY><!—opt, xs:Intenger--></TopLeftY>
<BottomRightX><!—opt, xs:Intenger--></BottomRightX>
<BottomRightY><!—opt, xs:Intenger--></BottomRightY>
</Region>
</FaceDetectMaskAlarm>

```

9.23 /FaceTemperatureDetect

9.23.1

/FaceTemperatureDetect/ChannelID/FaceTemperatureDetectConfig

/FaceTemperatureDetect/ChannelID/FaceTemperatureDetectConfig		General Resource	v1.0
Get		Viewer	
Description			It is used to get the config of face temperature detect
Query			None
Inbound Data			None
Success Return			ResponseStatus or FaceTemperatureDetectConfig
Put		Operator	
Description			It is used to set the config of face temperature detect
Query			None
Inbound Data			FaceTemperatureDetectConfig
Success Return			ResponseStatus
Notes:			
ChannelID Start from 1.			
URL usage:			
/FaceTemperatureDetect/1/FaceTemperatureDetectConfig			
ChannelID in XML is no required When put			

FaceTemperatureDetectConfig XML

```

<FaceTemperatureDetectConfig>
    <ChannelID><!—opt, xs:Intenger--></ChannelID>
    <Enable><!—req, xs:boolean"true","false"--></Enable>
    <TemperatureType><!—req, xs:string"Fahrenheit","Centigrade"--></Temperature>
    <NormalTemperatureDownLimit><!—req, xs:float--></NormalTemperatureDownLimit>

```

```

<NormalTemperatureUpLimit><!--req, xs:float--></NormalTemperatureUpLimit >
<TemperatureReviseEnable><!--req, xs:boolean "true", "false"--></TemperatureReviseEnable>
<TemperatureReviseValue><!--req, xs:float--></TemperatureReviseValue>
<FaceTemperatureDetectConfig>

```

9.23.2

/FaceTemperatureDetect/ChannelID/OverlayFaceTemperatu reOnOSD

/FaceTemperatureDetect/ChannelID/OverlayFaceTemperatureOnOSD		General Resource	1.0		
Get		Viewer			
Description		It is used to get the config about whether overlay the temperature info on OSD.			
Query		None			
Inbound Data		None			
Success Return		ResponseStatus or OverlayTemperatureOnOSDConfig			
Put		Operator			
Description		It is used to set the config about whether overlay the temperature info on OSD.			
Query		None			
Inbound Data		OverlayTemperatureOnOSDConfig			
Success Return		ResponseStatus			
Notes:					
ChannelID Start from 1.					
URL usage:					
/FaceTemperatureDetect/1/OverlayFaceTemperatureOnOSD					
ChannelID in XML is no required When put					

OverlayTemperatureOnOSDConfig XML

```

<OverlayTemperatureOnOSDConfig>
    <ChannelID><!--opt, xs:Intger--></ChannelID>
    <Enable><!--req, xs:boolean "true", "false"--></Enable>
</OverlayTemperatureOnOSDConfig>

```

9.23.3

/FaceTemperatureDetect/ChannelID/FaceTemperatureStatus

/FaceTemperatureDetect/ChannelID/FaceTemperatureStatus	General Resource v1.0
Get	Viewer
Description	It is used to get the current face temperature
Query	None
Inbound Data	None
Success Return	ResponseStatus or FaceTemperatureStatus
Notes:	
ChannelID Start from 1.	
URL usage:	
	/FaceTemperatureDetect/1/FaceTemperatureStatus

FaceTemperatureStatus XML

```
<FaceTemperatureStatus>
    <ChannelID><!--req, xs:Intreger--></ChannelID>
    <Temperature><!--req, xs:float--></Temperature>
</FaceTemperatureStatus>
```

9.23.4

/FaceTemperatureDetect/ChannelID/FaceTemperatureAbnormalAlarmConfig

/FaceTemperatureDetect/ChannelID/FaceTemperatureAbnormalAlarmConfig	General Resource v1.0
Get	Viewer
Description	It is used to get the alarm config when the face temperature is abnormal
Query	None
Inbound Data	None
Success Return	ResponseStatus or FaceTemperatureAbnormalAlarmConfig
Put	Operator
Description	It is used to set the alarm config when the face temperature is abnormal
Query	None
Inbound Data	FaceTemperatureAbnormalAlarmConfig

Success Return	ResponseStatus
<p>Notes:</p> <p>ChannelID Start from 1.</p> <p>URL usage:</p> <p>/FaceTemperatureDetect/1/FaceTemperatureAbnormalAlarmConfig</p> <p>ChannelID in XML is no required When put</p>	

FaceTemperatureAbnormalAlarmConfig XML

```
<FaceTemperatureAbnormalAlarmConfig>
    <ChannelID><!--req, xs:Intreger--></ChannnelID>
    <VoiceAlert><!--req, xs:string "Enable", "Disable"--></VoiceAlert>
    <DisableWhiteListLinkage><!--req, xs:string "Enable", "Disable"--></DisableWhiteListLinkage>
    <PushToPhone><!--req, xs:string "Enable", "Disable"--></PushToPhone>
    <AlarmOut1><!--req, xs:string "Enable", "Disable"--></AlarmOut1>
    <AlarmOut2><!--req, xs:string "Enable", "Disable"--></AlarmOut2>
</FaceTemperatureAbnormalAlarmConfig>
```

9.24 /Common

9.24.1 /Common/DeviceFileDialogDownload

/Common/DeviceFileDialogDownload	General Resource v1.0
GET	Viewer
Description	It is used to export the face library
Query	FileType, Path
Inbound Data	None
Success Return	ResponseStatus
Notes:	
FileType = 11 used to export the face library	

Output Param
The binary data of image

9.24.2 /Common/DeviceFileDialogUpload

/Common/DeviceFileDialogUpload	General Resource v1.0
PUT	Viewer
Description	It is used to import the face library
Query	None

Inbound Data	The binary data of face library
Success Return	ResponseStatus
Notes:	

Output Param
ResponseStatus

10 Device discovery V2

The IP Device in addition to support the upnp protocol to discovery device ,but this method can not set the network configuration overlay IP, so we support other method to discovery device and set the network configuration .this method use Multicast to transfer device information,the Multicast Address is 239.239.239.52,the port is 5566,the client only transfer a request packetage to the network on the 5566 port in the multicast method, we can get the device information but please note that this method is not over http,of course ,we also can use this method to set the network configuration,

The following is the description for use.

```
//Detect Request
Client:
<?xml version="1.0" encoding="UTF-8">
<Request>
    <Head Version="1.0.0" ConfigLength="xxx" CommandID="10" />
    <CfgInfo MainCommand="100" AssistCommand="-1" DeviceMac="xx" />
</Request>

Server:
<?xml version="1.0" encoding="UTF-8">
<Response>
    <Head Version="1.0.0" ConfigLength="xxx" CommandID="11" ReplyMsg="xx">
    <CfgInfo MainCommand="100" AssistCommand="-1" DeviceMac="xx" />
    <DeviceProbeConfig>
        <DeviceType><!--ro,req,xs:string--></DeviceType>
        <DeviceVersion><!--ro,req,xs:string--></DeviceVersion>
        <DeviceChannelCount><!--ro,req,xs:integer--></DeviceChannelCount>
        <DeviceEnableRegister><!--req,xs:boolean--></DeviceEnableRegister>
        <DeviceRegisterInterval>
            <!--req,xs:integer,"second"-->
        </DeviceRegisterInterval>
        <DeviceMac><!--ro,req,xs:string--></DeviceMac>
        <DeviceIP><!--req,xs:string--></DeviceIP>
```

```

<DeviceMask><!--req, xs:string--><DeviceMask>
<DeviceGateway><!--req, xs:string--></DeviceGateway>
<DeviceManagerHost><!--req, xs:string--></DeviceManagerHost>
<DeviceDetectPort><!--req, xs:integer--></DeviceDetectPort>
<ManagerHostPort><!--req, xs:integer--></ManagerHostPort>
<CommandPort><!--req, xs:integer--></CommandPort>
<MediaPort><!--req, xs:integer--></MediaPort>
<HttpPort><!--req, xs:integer--></HttpPort>
<RtspPort><!--req, xs:integer--></RtspPort>
<TutkUID><!--ro, req, xs:integer--><TutkUID>
<UlkUID><!--ro, req, xs:integer--><UlkUID>
</DeviceProbeConfig>
</Response>

```

//Detect Set Device Configuration

Client:

```

<?xml version="1.0" encoding="UTF-8">
<Request>
    <Head Version="1.0.0" ConfigLength="xxx" CommandID="10">
        <CfgInfo MainCommand="101" AssistCommand="-1" DeviceMac="xx" />
        <DeviceProbeConfig>
            <DeviceType><!--ro, req, xs:string--></DeviceType>
            <DeviceVersion><!--ro, req, xs:string--></DeviceVersion>
            <DeviceChannelCount><!--ro, req, xs:integer--></DeviceChannelCount>
            <DeviceEnableRegister><!--req, xs:boolean--></DeviceEnableRegister>
            <DeviceRegisterInterval>
                <!--req, xs:integer,"second"-->
            </DeviceEnableRegInterval>
            <DeviceMac><!--ro, req, xs:string--></DeviceMac>
            <DeviceIP><!--req, xs:string--></DeviceIP>
            <DeviceNetmask><!--req, xs:string--><DeviceMask>
            <DeviceGateway><!--req, xs:string--></DeviceGateway>
            <DeviceManagerHost><!--req, xs:string--></DeviceManagerHost>
            <DeviceDetectPort><!--req, xs:integer--></DeviceDetectPort>
            <ManagerHostPort><!--req, xs:integer--></ManagerHostPort>
            <CommandPort><!--req, xs:integer--></CommandPort>
            <MediaPort><!--req, xs:integer--></MediaPort>
            <HttpPort><!--req, xs:integer--></HttpPort>
            <RtspPort><!--req, xs:integer--></RtspPort>
            <TutkUID><!--ro, req, xs:integer--><TutkUID>
            <UlkUID><!--ro, req, xs:integer--><UlkUID>
        </DeviceProbeConfig>
    </Request >

```

Server:

```
<?xml version="1.0" encoding="UTF-8">
<Response>
    <Head Version="x.x.x" ConfigLength="xxx" CommandID="11" ReplyMsg="xx" />
    <CfgInfo MainCommand="101" AssistCommand="-1" DeviceMac="xx" />
</Response>
```

//Detect Network Configuration , **need authentication**

Client:

```
<?xml version="1.0" encoding="UTF-8">
<Request>
    <Head Version="1.0.0" ConfigLength="xxx" CommandID="10" />
    <CfgInfo MainCommand="102" AssistCommand="-1" DeviceMac="xx" />
    <Auth UserName="xx" UserPassword="xx" />
</Request>
```

Server:

```
<?xml version="1.0" encoding="UTF-8">
<Response>
    <Head Version="1.0.0" ConfigLength="xxx" CommandID="11" ReplyMsg="xx" />
    <CfgInfo MainCommand="102" AssistCommand="-1" DeviceMac="xx" />
    <DeviceProbeNetConfig>
        <DeviceType><!--ro,req,xs:string--></DeviceType>
        <DeviceVersion><!--ro,req,xs:string--></DeviceVersion>
        <DeviceChannelCount><!--ro,req,xs:integer--></DeviceChannelCount>
        <DeviceEnableRegister><!--req,xs:boolean--></DeviceEnableRegister>
        <DeviceEnableRegInterval>
            <!--req,xs:integer,second in unit-->
        </DeviceEnableRegInterval>
        <NetworkInterfaceList>
            <NetworkInterface>
                <ID><!--req,xs:string--></ID>
                <Enable><!--ro,req,xs:string,"open,close,notsupport"--></Enable>
                <DhcpEnable><!--req,xs:boolean--></DhcpEnable>
                <MAC><!--req,xs:string--></MAC>
                <IPAddress><!--req,xs:string--></IPAddress>
                <Netmask><!--req,xs:string--></Netmask>
                <Gateway><!--req,xs:string--></Gateway>
                <EnableAutoGenerateIP>
                    <!--req,xs:boolean-->
                </EnableAutoGenerateIP>
                <NetworkState>
```

```

        <!--ro,opt,"get ip success,close,getting ip,get ip failed"-->
    </NetworkState>
</NetworkInterface>
</NetworkInterfaceList>
<DeviceManagerHost><!--req,xs:string--></DeviceManagerHost>
<DeviceDetectPort><!--req,xs:integer--></DeviceDetectPort>
<ManagerHostPort><!--req,xs:integer--></ManagerHostPort>
<CommandPort><!--req,xs:integer--></CommandPort>
<MediaPort><!--req,xs:integer--></MediaPort>
<HttpPort><!--req,xs:integer--></HttpPort>
<RtspPort><!--req,xs:integer--></RtspPort>
<TutkUID><!--ro,req,xs:integer--><TutkUID>
<UlkUID><!--ro,req,xs:integer--><UlkUID>
</DeviceProbeNetConfig>
</Response>

```

//Detect Set Network Configuration ,**need authentication**

Client:

```

<?xml version="1.0" encoding="UTF-8">
<Request>
    <Head Version="1.0.0" ConfigLength="xxx" CommandID="10">
        <CfgInfo MainCommand="103" AssistCommand="-1" DeviceMac="xx" />
        <Auth UserName="xx" UserPassword="xx" />
        <DeviceProbeNetConfig>
            <DeviceType><!--ro,req,xs:string--></DeviceType>
            <DeviceVersion><!--ro,req,xs:string--></DeviceVersion>
            <DeviceChannelCount><!--ro,req,xs:integer--></DeviceChannelCount>
            <DeviceEnableRegister><!--req,xs:boolean--></DeviceEnableRegister>
            <DeviceEnableRegInterval>
                <!--req,xs:integer,second in unit-->
            </DeviceEnableRegInterval>
            <DeviceMac><!--ro,req,xs:string--></DeviceMac>
            <NetworkInterfaceList>
                <NetworkInterface>
                    <ID><!--req,xs:string--></ID>
                    <Enable><!--req,xs:string,"open,close,notsupport"--></Enable>
                    <DhcpEnable><!--req,xs:boolean--></DhcpEnable>
                    <MAC><!--req,xs:string--></MAC>
                    <IPAddress><!--req,xs:string--></IPAddress>
                    <Netmask><!--req,xs:string--></Netmask>
                    <Gateway><!--req,xs:string--></Gateway>
                    <EnableAutoGenerateIP>
                        <!--req,xs:boolean-->
                    </EnableAutoGenerateIP>
                </NetworkInterface>
            </NetworkInterfaceList>
        </DeviceProbeNetConfig>
    </Request>

```

```

<NetworkState>
    <!--opt,"get ip success,close,getting ip,get ip failed"-->
</NetworkState>
</NetworkInterface>
</NetworkInterfaceList>
<DeviceManagerHost><!--req,xs:string--></DeviceManagerHost>
<DeviceDetectPort><!--req,xs:integer--></DeviceDetectPort>
<ManagerHostPort><!--req,xs:integer--></ManagerHostPort>
<CommandPort><!--req,xs:integer--></CommandPort>
<MediaPort><!--req,xs:integer--></MediaPort>
<HttpPort><!--req,xs:integer--></HttpPort>
<RtspPort><!--req,xs:integer--></RtspPort>
<TutkUID><!--ro,req,xs:integer--><TutkUID>
<UlkUID><!--ro,req,xs:integer--><UlkUID>
</DeviceProbeNetConfig>
</Request>

```

Server:

```

<?xml version="1.0" encoding="UTF-8" />
<Response>
    <Head Version="1.0.0" ConfigLength="xxx" CommandID="11" ReplyMsg="xx" />
    <CfgInfo MainCommand="103" AssistCommand="-1" DeviceMac="xx" />
</Response>

```

Note:

<Version> is show this interface version, now, we only support “1.0.0”.
 <ConfigLenght> is show the struct length that you send.
 <CommandID> is the Command ID, if it is the data that the client send ,the <CommandID> is 10,
 If it is the data that the server send,the <CommandID> is 11.
 <Replymsg> is the error code that the server send, if the <ReplyMsg> is 0,then reply
 success,otherwise, reply failed.
 <MainCommand> and <AssistCommand> is show the instruction that you execute. Different
 request has different instruction.
 <DeviceMac> is the Device mac that you want to set.