Access Control API

（Base on IPC fw 5.1.1）

一、API protocol：

1. GetAccessControlConfig

GetAccessControlConfig	
Description	To get the IP media device's AccessControl configuration.
Typical URL	POST or GET http://<host>[:port]/ GetAccessControlConfig[/channelId]
Channel ID	Optional. If none channel ID included in the URL, the default channel ID is 1.
Action name	None
Entity Data	None
Successful Response	The AccessControl configuration will be included in the entity of the successful response. For example:

<?xml version="1.0" encoding="UTF-8"?>

<config version="1.7" xmlns="http://www.ipc.com/ver10">

<types>

<accessListType>

<enum>whiteList</enum>

<enum>visitorAbove</enum>

<enum>strangerAbove</enum>

</accessListType>

<doorLockType>

<enum>Auto</enum>

<enum>NO</enum>

<enum>NC</enum>

</doorLockType>

<doorLockAction>

```
<enum>openDoor</enum>
<enum>closeDoor</enum>
</doorLockAction>
</types>
<AccessControl>
<temperatureOpen type="boolean">false</temperatureOpen>
<wearmaskOpen type="boolean">false</wearmaskOpen>
<QRCodeOpen type="boolean">false</QRCodeOpen>
<accessListType type="accessListType">whiteList</accessListType>
<doorLock type="list" count="1">
<item id="1">
<OpenDelayTime type="uint8" min="0" max="10" default="3">3</OpenDelayTime>
<OpenHoldTime type="uint8" min="1" max="10" default="5">5</OpenHoldTime>
<doorLockConfig type="doorLockType">Auto</doorLockConfig>
<alarmAction type="doorLockAction">openDoor</alarmAction>
</item>
</doorLock>
</AccessControl>
</config>
```

[Tips]:

temperatureOpen: Target's temperature as access control condition

wearmaskOpen: Wearing mask as access control condition

OpenDelayTime: Door open delay

OpenHoldTime: Door open duration (until auto closing)

doorLockConfig: Default status of door lock

alarmAction: Open or close door when alarm

2. SetAccessControlConfig

SetAccessControlConfig	
Description	To set the IP media device's AccessControl configuration.
Typical URL	POST http://<host>[:port]/ SetAccessControlConfig[/channelId]

Channel ID	Optional. If none channel ID included in the URL, the default channel ID is 1.
Action name	None
Entity Data	The same as " GetAccessControlConfig ".
Successful Response	The standard successful result response that described in 1.3.5.
[Tips]:	

3. GetTamperConfig

GetTamperConfig	
Description	To get the IP media device's Tamper configuration.
Typical URL	POST or GET http://<host>[:port]/ GetTamperConfig[/channelId]
Channel ID	Optional. If none channel ID included in the URL, the default channel ID is 1.
Action name	None
Entity Data	None
Successful Response	The Tamper configuration will be included in the entity of the successful response. For example:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<config version="1.7" xmlns="http://www.ipc.com/ver10">
<TamperAlarm>
<switch type="boolean">false</switch >
<alarmHoldTime type="uint32">20</alarmHoldTime>
<triggerAlarmOut type="list" count="2"><itemType type="boolean"/>
<item id="0">false</item>
<item id="1">false</item>
</triggerAlarmOut>
<mail type="list" count="0">
<switch type="boolean">false</switch>
<subject type="string" maxLen="63"><![CDATA[]]></subject>
```

<content type="string" maxLen="255"><![CDATA[]]></content>

</mail>

<ftp type="list" count="0">

<switch type="boolean">false</switch>

</ftp>

<savePicSwitch type="boolean">false</savePicSwitch>

<sdRecSwitch type="boolean">false</sdRecSwitch>

<audioSwitch type="boolean">false</audioSwitch>

</TamperAlarm >

</config>

4. SetTamperConfig

SetTamperConfig	
Description	To set the IP media device's Tamper configuration.
Typical URL	POST http://<host>[:port]/ SetTamperConfig[/channelId]
Channel ID	Optional. If none channel ID included in the URL, the default channel ID is 1.
Action name	None
Entity Data	The same as " GetTamperConfig ".
Successful Response	The standard successful result response that described in 1.3.5.
[Tips]:	

5. UnLockingByPassword

UnLockingByPassword	
Description	Enter password to unlock..
Typical URL	POST http://<host>[:port]/UnLockingByPassword

Channel ID	None
Action name	None
Entity Data	The password will be included in the entity of request message. For example:

```xml
<?xml version="1.0"?>
<config version="1.0" xmlns="http://www.ipc.com/ver10">
<unlocking>
<jobNumber type="string" maxLen="31"><![CDATA[]]></jobNumber>
<password type="string" maxLen="31"><![CDATA[MTIzNDU2]]></password>
</unlocking>
</config>
```

Successful Response	The standard successful result response that described in 1.3.5.
[Tips]:	

6. UnLockingByAdmin

UnLockingByAdmin	
Description	administrator controls to unlock.
Typical URL	POST http://<host>[:port]/UnLockingByAdmin
Channel ID	Optional. If none channel ID included in the URL, the default channel ID is 1.
Action name	None
Entity Data	None
Successful Response	The standard successful result response that described in 1.3.5.
[Tips]:	

7. GetTabletConfig

GetTabletConfig	
Description	Tablet configuration
Typical URL	POST http://<host>[:port]/ GetTabletConfig
Channel ID	None
Action name	None
Entity Data	None
Successful Response	The Tablet configuration will be included in the entity of the successful response. For example:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<config version="1.7" xmlns="http://www.ipc.com/ver10">
<tablet>
<backLightAdjust>
<switch type="boolean" default="true">true</switch>
<value type="uint8" min="150" max="255" default="200">200</value>
</backLightAdjust>
<sleepMode>
<switch type="boolean" default="flase">true</switch>
<waitTime type="uint32" min="1" max="255">20</waitTime>
</sleepMode>
<languageInfo>
<supportLan type="string">
<item id="1"><![CDATA[English(EN)]]></item>
<item id="4"><![CDATA[简体中文]]></item>
......
</supportLan>
<supportVoi type="string">
<item id="1"><![CDATA[English(EN)]]></item>
<item id="4"><![CDATA[简体中文]]></item>
```

```
......

</supportVoi>

<textLanguageType type="string"><![CDATA[English(EN)]]></textLanguageType>

<audioAlarmLanguage type="string"><![CDATA[English(EN)]]></audioAlarmLanguage>

</languageInfo>

</tablet>

</config>
```

[Tips]:

8. SetTabletConfig

SetTabletConfig	
Description	Tablet configuration
Typical URL	POST http://<host>[:port]/ SetTabletConfig
Channel ID	Optional. If none channel ID included in the URL, the default channel ID is 1.
Action name	None
Entity Data	The same as " GetTabletConfig ".
Successful Response	The standard successful result response that described in 1.3.5.
[Tips]:	

9. GetTakeTemperatureConfig

GetTakeTemperatureConfig	
Description	To get the IP media device's temperature configuration.
Typical URL	POST or GET http://<host>[:port]/GetTakeTemperatureConfig[/channelId]
Channel ID	Optional. If none channel ID included in the URL, the default channel ID is 1.

Action name	None
Entity Data	None
Successful Response	The temperature configuration will be included in the entity of the successful response. For example:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<config version="1.7" xmlns="http://www.ipc.com/ver10">
<types>
<tempUnitsType>
<enum>centigrade</enum>
<enum>Fahrenheit</enum>
</tempUnitsType>
<temperatureMode>
<enum>speed</enum>
<enum>precision</enum>
</temperatureMode>
</types>
<TakeTemperature>
<takeEanble type="boolean" default="false">false</takeEanble>
<tempUnits type="tempUnitsType">centigrade</tempUnits>
<temperatureMode type="temperatureMode">speed</temperatureMode>
<highThreshold>
<switch type="boolean" default="false">false</switch>
<value type="uint32" min="0" max="10000">3720</value>
</highThreshold>
<lowThreshold>
<switch type="boolean" default="false">false</switch>
<value type="uint32"    min="0" max="10000">3600</value>
</lowThreshold>
<FhighThreshold>
<switch type="boolean" default="false">false</switch>
<value type="uint32" min="3200" max="21200">9900</value>
</FhighThreshold>
<FlowThreshold>
```

```
<switch type="boolean" default="false">false</switch>

<value type="uint32" min="3200" max="21200">9600</value>

</FlowThreshold>

<alarmHoldTime type="uint32">20</alarmHoldTime>

<triggerAlarmOut type="list" count="2"><itemType type="boolean"/>

<item id="0">false</item>

<item id="1">false</item>

</triggerAlarmOut>

<mail type="list" count="0">

<switch type="boolean">false</switch>

<subject type="string" maxLen="63"><![CDATA[]]></subject>

<content type="string" maxLen="255"><![CDATA[]]></content>

</mail>

<ftp type="list" count="0">

<switch type="boolean">false</switch>

</ftp>

<savePicSwitch type="boolean">false</savePicSwitch>

<sdRecSwitch type="boolean">false</sdRecSwitch>

<audioSwitch type="boolean">false</audioSwitch>

</TakeTemperature>

</config>
```

10. SetTakeTemperatureConfig

SetTakeTemperatureConfig	
Description	To set the IP media device's Tenoerature configuration.
Typical URL	POST http://<host>[:port]/SetTakeTemperatureConfig[/channelId]
Channel ID	Optional. If none channel ID included in the URL, the default channel ID is 1.
Action name	None
Entity Data	The same as " GetTakeTemperatureConfig".

Successful Response	The standard successful result response that described in 1.3.5.
[Tips]:	

11.GetWearmaskDetectConfig

GetWearmaskDetectConfig	
Description	To get the IP media device's wearmask configuration.
Typical URL	POST or GET http://<host>[:port]/**GetWearmaskDetectConfig**[/channelId]
Channel ID	Optional. If none channel ID included in the URL, the default channel ID is 1.
Action name	None
Entity Data	None
Successful Response	The wearmask configuration will be included in the entity of the successful response. For example:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<config version="1.7" xmlns="http://www.ipc.com/ver10">
<WearmaskDetect>
<switch type="boolean" default="false">false</switch>
<alarmHoldTime type="uint32">20</alarmHoldTime>
<triggerAlarmOut type="list" count="2"><itemType type="boolean"/>
<item id="0">false</item>
<item id="1">false</item>
</triggerAlarmOut>
<mail type="list" count="0">
<switch type="boolean">false</switch>
<subject type="string" maxLen="63"><![CDATA[]]></subject>
<content type="string" maxLen="255"><![CDATA[]]></content>
</mail>
<ftp type="list" count="0">
<switch type="boolean">false</switch>
</ftp>
```

```
<savePicSwitch type="boolean">false</savePicSwitch>

<sdRecSwitch type="boolean">false</sdRecSwitch>

<audioSwitch type="boolean">false</audioSwitch>

</WearmaskDetect>

</config>
```

12. SetWearmaskDetectConfig

SetWearmaskDetectConfig	
Description	To set the IP media device's Wearmask configuration.
Typical URL	POST http://<host>[:port]/SetWearmaskDetectConfig[/channelId]
Channel ID	Optional. If none channel ID included in the URL, the default channel ID is 1.
Action name	None
Entity Data	The same as "GetWearmaskDetectConfig".
Successful Response	The standard successful result response that described in 1.3.5.
[Tips]:	

13. GetDoorContactConfig

GetDoorContactConfig	
Description	Door magnetic configuration
Typical URL	POST or GET http://<host>[:port]/ GetDoorContactConfig [/channelId]
Channel ID	Optional. If none channel ID included in the URL, the default channel ID is 1.
Action name	None
Entity Data	None
Successful Response	The Tablet configuration will be included in the entity of the successful response. For example:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<config version="1.7" xmlns="http://www.ipc.com/ver10">
<types>
<alarmInVoltage>
<enum>NO</enum>
<enum>NC</enum>
</alarmInVoltage>
</types>
<doorContact type="list" count="1">
<item id="1">
<switch type="boolean">false</switch>
<doorContactVoltage type="alarmInVoltage">NO</doorContactVoltage>
<alarmDelayTime type="uint32">0</alarmDelayTime>
<maxOpenTime type="uint32">60</maxOpenTime>
<triggerAlarmOut type="list" count="1">
<itemType type="boolean"/>
<item id="1">false</item>
</triggerAlarmOut>
<mail type="list" count="0">
<switch type="boolean">false</switch>
<subject type="string" maxLen="63"><![CDATA[]]></subject>
<content type="string" maxLen="255"><![CDATA[]]></content>
</mail>
<ftp type="list" count="0">
<switch type="boolean">false</switch>
</ftp>
<audioSwitch type="boolean">false</audioSwitch>
</item>
</doorContact>
</config>
```

[Tips]:

14. SetDoorContactConfig

SetDoorContactConfig	
Description	Door magnetic configuration
Typical URL	POST http://<host>[:port]/ SetDoorContactConfig [/channelId]
Channel ID	Optional. If none channel ID included in the URL, the default channel ID is 1.
Action name	None
Entity Data	The same as " GetDoorContactConfig ".
Successful Response	The standard successful result response that described in 1.3.5.
[Tips]:	

15. SearchSnapFaceByTime

SetDoorContactConfig	
Description	Get the face info from the target lib.
Typical URL	POST http://<host>[:port]/SearchSnapFaceByTime[/channelId]
Channel ID	Optional. If none channel ID included in the URL, the default channel ID is 1.
Action name	None
Entity Data	The "queryAction" element will be included in the entity of request message. For example:

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

<config>

<types>

<searchType>

<enum>FaceMatch</enum>

<enum>SwipingCard</enum>

```
<enum>AllType</enum>
</searchType>
</types>
<search>
    <starttime type="string"><![CDATA[2020-11-17 00:00:00]]></starttime>
    <endtime type="string"><![CDATA[2020-11-18 00:00:00]]></endtime>
    <searchType type="searchType">AllType</searchType>
</search>
</config>
```

Successful Response	The "face" element will be included in the entity of the successful response. For example:

```
<?xml version="1.0" encoding="utf-8"?>
<config xmlns="http://www.ipc.com/ver10" version="1.0">
    <captureFaceList type="list" count="3">
        <item>
            <snapTime type="uint64">6234564566</snapTime>
            <faceID type="uint32">66</faceID>
        </item>
        <item>
            <snapTime type="uint64">6234780985</snapTime>
            <faceID type="uint32">195</faceID>
        </item>
        <item>
            <snapTime type="uint64">7645456908</snapTime>
            <faceID type="uint32">10320</faceID>
        </item>
    </captureFaceList>
</config>
```

[Tips]:

16. SearchSnapFaceByKey

SearchSnapFaceByKey	
Description	Get the face info from the target lib.
Typical URL	POST http://<host>[:port]/SearchSnapFaceByKey[/channelId]

Channel ID	Optional. If none channel ID included in the URL, the default channel ID is 1.
Action name	None
Entity Data	The "queryAction" element will be included in the entity of request message. For example:

```xml
<?xml version="1.0" encoding="utf-8"?>
<config xmlns="http://www.ipc.com/ver10" version="1.0">
    <search>
        <snapTime type="uint64">6234564566</snapTime>
        <faceID type="uint32">66</faceID>
        <requestPanoramicPic type="boolean">true</requestPanoramicPic>
        <requestPersonPic type="boolean">true</requestPersonPic>
    </search>
</config>
```

Successful Response	The "face" element will be included in the entity of the successful response. For example:

```xml
<?xml version="1.0" encoding="utf-8"?>
<config xmlns="http://www.ipc.com/ver10" version="1.0">
    <types>
        <listType>
            <enum>strangerList</enum>
            <enum>whiteList</enum>
            <enum>blackList</enum>
        </listType>
        <sexType>
            <enum>male</enum>
            <enum>female</enum>
        </sexType>
        <formatType>
            <enum>jpg</enum>
        </formatType>
        <accessType>
            <enum>FaceMatch</enum>
```

```xml
                <enum>Password</enum>
                <enum>SwipingCard</enum>
            </accessType>
            <combinationType>
                <enum>and</enum>
                <enum>or</enum>
            </combinationType>
            <tempUnitsType>
                <enum>centigrade</enum>
                <enum>Fahrenheit</enum>
            </tempUnitsType>
        </types>
        <snapFace>
            <snapInfo>
                <time type="string"><![CDATA[2017-06-30 00:00:00]]></time>
                <register type="boolean">true</register>
                <pictureData type="string" maxLen="95576">
                    <![CDATA[Base64 Picture Data]]>
                </pictureData>
                <width type="uint32">100</width>
                <height type="uint32">80</height>
                <format type="formatType">jpg</format>
                <size type="uint32">50000</size>
            </snapInfo>
            <matchInfo>
                <similarity type="uint8">83</similarity>
                <threshold type="uint8">80</threshold>
                <personID type="uint32">1543018104</personID>
                <personInfo>
                    <listType type="listType">whiteList</listType>
                    <name type="string" maxLen="127"><![CDATA[user]]></name>
                    <sex type="sexType">male</sex>
                    <age type="uint32">34</age>
                    <jobNumber type="string" maxLen="31"><![CDATA[0232]]></jobNumber>
```

```xml
            <identifyNumber type="string" maxLen="127">

                <![CDATA[A123]]>

            </identifyNumber>

            <telephone type="string" maxLen="63"><![CDATA[18888888888]]></telephone>

            <comment type="string" maxLen="63"><![CDATA[]]></comment>

            <accessTypeEx>

                <accessTypeStr type="string" maxLen="63">

                    <![CDATA[FaceMatch;SwipingCard]]>

                </accessTypeStr>

                <combinationType type="combinationType">and</combinationType>

            </accessTypeEx>

            <picInfo>

                <pictureData type="string" maxLen="95576">

                    <![CDATA[Base64 Picture Data]]>

                </pictureData>

                <width type="uint32">100</width>

                <height type="uint32">80</height>

                <format type="formatType">jpg</format>

                <size type="uint32">50000</size>

            </picInfo>

        </personInfo>

    </matchInfo>

  </snapFace>
</config>
```

[Tips]:

If there is no face match action, then response will not include <matchInfo>

If face match fail, then response will not include <personInfo>

If requestPanoramicPic is false, then response will not include <panoramicInfo>

If requestPersonPic is false, then response will not include <picInfo>

17. AddTargetFace

AddTargetFace	
Description	Add the face info to the target lib.
Typical URL	POSThttp://<host>[:port]/AddTargetFace[/channelId]
Channel ID	Optional. If none channel ID included in the URL, the default channel ID is 1.
Action name	None
Entity Data	The "personInfo" and "faceImgs" elements will be included in the entity of request message. For example:

```
?xml version="1.0" encoding="utf-8"?>
<config xmlns="http://www.ipc.com/ver10" version="1.0">
    <types>
        <listType>
            <enum>strangerList</enum>
            <enum>whiteList</enum>
            <enum>blackList</enum>
        </listType>
        <sexType>
            <enum>male</enum>
            <enum>female</enum>
        </sexType>
        <formatType>
            <enum>jpg</enum>
        </formatType>
        <accessType>
            <enum>FaceMatch</enum>
            <enum>Password</enum>
            <enum>SwipingCard</enum>
        </accessType>
        <combinationType>
            <enum>and</enum>
            <enum>or</enum>
        </combinationType>
    </types>
    <personInfo>
        <listType type="listType">whiteList</listType>
        <name type="string" maxLen="127"><![CDATA[user]]></name>
        <sex type="sexType">male</sex>
        <age type="uint32">34</age>
        <jobNumber type="string" maxLen="31"><![CDATA[]]></jobNumber>
        <identifyNumber type="string" maxLen="127"><![CDATA[A123]]></identifyNumber>
        <telephone type="string" maxLen="63"><![CDATA[18888888888]]></telephone>
```

```xml
            <comment type="string" maxLen="63"><![CDATA[]]></comment>
            <password type="string" maxLen="31"><![CDATA[Base64 Data]]></password>

            <accessTypeEx>

                <accessTypeStr type="string" maxLen="63">

                    <![CDATA[FaceMatch;SwipingCard]]>

                </accessTypeStr>

                <combinationType type="combinationType">and</combinationType>

            </accessTypeEx>

        </personInfo>
        <faceImgs type="list" maxCount="5" count="1">
            <item>
                <pictureData type="string" maxLen="95576">
                    <![CDATA[Base64 Picture Data]]>
                </pictureData>
                <pictureNum type="uint32">1</pictureNum>
                <width type="uint32">100</width>
                <height type="uint32">80</height>
                <format type="formatType">jpg</format>
                <size type="uint32">50000</size>
            </item>
        </faceImgs>
         <schedule maxTimeSpan="100" maxYearlyDay="31">
            <period mode="weekly" start="00:00" end="23:59" day="sunday"/>
            <period mode="weekly" start="00:00" end="23:59" day="monday"/>
            <period mode="weekly" start="00:00" end="23:59" day="tuesday"/>
            <period mode="weekly" start="00:00" end="23:59" day="wednesday"/>
            <period mode="weekly" start="00:00" end="23:59" day="thursday"/>
            <period mode="weekly" start="00:00" end="23:59" day="friday"/>
            <period mode="weekly" start="00:00" end="23:59" day="saturday"/>
        </schedule>
    </config>
```

| Successful Response | The standard successful result response that described in 1.3.5. |

[Tips]:

1. Only support jpg(jpeg) format, size limit 200k

2. EditTargetFace & AddTargetFace has same <personInfo>

3. jobNumber: Job ID number

18. GetAccessDataComConfig

GetAccessDataComConfig	
Description	Swiping card config
Typical URL	POST or GET http://\<host\>[:port]/ GetAccessDataComConfig [/channelId]
Channel ID	Optional. If none channel ID included in the URL, the default channel ID is 1.
Action name	None
Entity Data	None
Successful Response	The Tablet configuration will be included in the entity of the successful response. For example:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<config version="1.7" xmlns="http://www.ipc.com/ver10">
    <types>
        <RS485DeviceType>
            <enum>cardReaderIn</enum>
            <enum>accessDeviceOut</enum>
        </RS485DeviceType>
        <Rate>
            <enum>9600</enum>
        <enum>14400</enum>
            <enum>19200</enum>
        </Rate>
        <partiType>
            <enum>None</enum>
            <enum>Odd</enum>
            <enum>Even</enum>
            <enum>Mark</enum>
        </partiType>
        <dataBits>
            <enum>5</enum>
            <enum>6</enum>
            <enum>7</enum>
```

```xml
            <enum>8</enum>
        </dataBits>
        <stopBit>
            <enum>1</enum>
            <enum>1.5</enum>
            <enum>2</enum>
        </stopBit>
        <wiegandIOType>
            <enum>INPUT</enum>
            <enum>OUTPUT</enum>
            <enum>OFF</enum>
        </wiegandIOType>
        <wiegandMode>
            <enum>26bit(8)</enum>
            <enum>26bit(10)</enum>
            <enum>34bit</enum>
            <enum>37bit</enum>
            <enum>42bit</enum>
            <enum>46bit</enum>
            <enum>58bit</enum>
            <enum>66bit</enum>
        </wiegandMode>
    </types>
    <accessDataComDev>
        <interCardReader>
            <NFCSwitch type="boolean">false</NFCSwitch>
            <EMSwitch type="boolean">false</EMSwitch>
            <CPUSwich type="boolean">false</CPUSwich>
            <CPUReadSwich type="boolean">false</CPUReadSwich>
            <IDSwitch type="boolean">false</IDSwitch>
            <M1Config>
                <switch type="boolean">false</switch>
                <EnCryption type="boolean">false</EnCryption>
                <sector type="uint32">13</sector>
```

```
            </M1Config>
        </interCardReader>
        <RS485Device>
            <id type="uint32">0</id>
            <devType type="RS485DeviceType">cardReaderIn</devType>
            <addr type="uint32">0</addr>
            <comPara>
                <baudRate type="Rate">19200</baudRate>
                <partiType type="partiType">None</partiType>
                <dataBits type="dataBits">8</dataBits>
                <stopBit type="stopBit">1</stopBit>
                <flowControl type="boolean">false</flowControl>
            </comPara>
        </RS485Device>
        <wiegand>
            <IOType type="wiegandIOType">OFF</IOType>
            <mode type="wiegandMode">26bit(10)</mode>
        </wiegand>
    </accessDataComDev>
</config>
```

[Tips]:

19. SetAccessDataComConfig

SetAccessDataComConfig	
Description	Data com configuration
Typical URL	POST http://<host>[:port]/SetAccessDataComConfig [/channelId]
Channel ID	Optional. If none channel ID included in the URL, the default channel ID is 1.
Action name	None
Entity Data	The same as "GetAccessDataComConfig ".
Successful Response	The standard successful result response that described in 1.3.5.

20. GetTargetFace （Face library）

GetTargetFace	
Description	Get the face info from the target lib.
Typical URL	POSThttp://<host>[:port]/GetTargetFace[/channelId]
Channel ID	Optional. If none channel ID included in the URL, the default channel ID is 1.
Action name	None
Entity Data	The "queryAction" element will be included in the entity of request message. For example:

```xml
<!--example: 1 Query personnel ID by list type -->
<?xml version="1.0" encoding="utf-8"?>
<config xmlns="http://www.ipc.com/ver10" version="1.0">
    <types>
        <queryType>
            <enum>byPersonID</enum>
            <enum>byListType</enum>
            <enum>byName</enum>
            <enum>byIdentifyNumber</enum>
            <enum> byPageNum</enum>
        </queryType>
        <listType>
            <enum>strangerList</enum>
            <enum>whiteList</enum>
            <enum>blackList</enum>
        </listType>
    </types>
    <queryAction>
        <queryType type="queryType">byListType</queryType>
        <listType type="listType">whiteList</listType>
    </queryAction>
</config>

<!--example: 2 Query personnel ID by name -->
<?xml version="1.0" encoding="utf-8"?>
<config xmlns="http://www.ipc.com/ver10" version="1.0">
    <types>
        <queryType>
            <enum>byPersonID</enum>
```

```xml
                <enum>byListType</enum>
                <enum>byName</enum>
                <enum>byIdentifyNumber</enum>
                <enum> byPageNum</enum>
            </queryType>
            <listType>
                <enum>strangerList</enum>
                <enum>whiteList</enum>
                <enum>blackList</enum>
            </listType>
        </types>
        <queryAction>
            <queryType type="queryType">byName</queryType>
            <name type="string" maxLen="127"><![CDATA[user]]></name>
        </queryAction>
    </config>

    <!--example: 3 Query personnel ID by Page -->
    <?xml version="1.0" encoding="utf-8"?>
    <config xmlns="http://www.ipc.com/ver10" version="1.0">
        <types>
            <queryType>
                <enum>byPersonID</enum>
                <enum>byListType</enum>
                <enum>byName</enum>
                <enum>byIdentifyNumber</enum>
                <enum> byPageNum</enum>
            </queryType>
            <listType>
                <enum>strangerList</enum>
                <enum>whiteList</enum>
                <enum>blackList</enum>
            </listType>
        </types>
        <queryAction>
            <queryType type="queryType">byPageNum</queryType>
            <PageNum type="uint32">0</PageNum>
            <PageSize type="uint32">10</PageSize>
        </queryAction>
    </config>
```

Successful Response (1)	The "face" element will be included in the entity of the successful response. For example:

```xml
<?xml version="1.0" encoding="utf-8"?>
<config xmlns="http://www.ipc.com/ver10" version="1.0">
    <face>
        <personID type="list" maxCount="20000" count="4">
            <itemType type="uint32"/>
            <item>1543018099</item>
            <item>1543018100</item>
            <item>1543018101</item>
            <item>1543018104</item>
        </personID>
    </face>
</config>
```

Successful Response (2)	If the Data is empty

```xml
<?xml version="1.0" encoding="UTF-8"?>
<config xmlns="http://www.ipc.com/ver10" version="1.7" status="success">
    <types>
        <listType>
            <enum>strangerList</enum>
            <enum>whiteList</enum>
            <enum>blackList</enum>
        </listType>
        <sexType>
            <enum>male</enum>
            <enum>female</enum>
        </sexType>
        <accessType>
            <enum>FaceMatch</enum>
            <enum>Password</enum>
            <enum>SwipingCard</enum>
        </accessType>
        <combinationType>
            <enum>and</enum>
            <enum>or</enum>
        </combinationType>
    </types>
    <face>
        <personID type="list" maxCount="3000" count="0">
        <itemType type="uint32"/>
        </personID>
    </face>
    <personInfo>
        <listType type="listType"> </listType>
        <name type="string" maxLen="127" dataType="sensitive"><![CDATA[]]></name>
```

```xml
            <sex type="sexType"> </sex>
            <age type="uint32"></age>
            <jobNumber type="string" maxLen="31"><![CDATA[]]></jobNumber>
            <identifyNumber type="string" maxLen="127"><![CDATA[]]></identifyNumber>
            <telephone type="string" maxLen="63"><![CDATA[]]></telephone>
            <comment type="string" maxLen="63"><![CDATA[]]></comment>
            <password type="string" maxLen="20"><![CDATA[]]></password>
            <accessTypeEx>
                <accessTypeStr type="string" maxLen="63"><![CDATA[]]></accessTypeStr>
                <combinationType type="combinationType"> </combinationType>
            </accessTypeEx>
        </personInfo>
    </config>
```

```xml
<!--example: 4 Query Person info by PersonID -->
<?xml version="1.0" encoding="utf-8"?>
<config xmlns="http://www.ipc.com/ver10" version="1.0">
    <types>
        < queryType>
            <enum>byPersonID</enum>
            <enum>byListType</enum>
            <enum>byName</enum>
            <enum>byIdentifyNumber</enum>
        </queryType>
        <listType>
            <enum>strangerList</enum>
            <enum>whiteList</enum>
            <enum>blackList</enum>
        </listType>
    </types>
    <queryAction>
        <queryType type="queryType">byPersonID</queryType>
        <personID type="uint32">1543018104</personID>
    </queryAction>
</config>
```

Successful Response	The "face" element will be included in the entity of the successful response. For example:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<config xmlns="http://www.ipc.com/ver10" version="1.7">
    <types>
        <listType>
            <enum>strangerList</enum>
```

```xml
            <enum>whiteList</enum>
            <enum>blackList</enum>
        </listType>
        <sexType>
            <enum>male</enum>
            <enum>female</enum>
        </sexType>
        <formatType>
            <enum>jpg</enum>
            <enum>rgb</enum>
            <enum>bgr</enum>
        </formatType>
        <accessType>
            <enum>FaceMatch</enum>
            <enum>Password</enum>
            <enum>SwipingCard</enum>
        </accessType>
        <combinationType>
            <enum>and</enum>
            <enum>or</enum>
        </combinationType>
    </types>
    <personID type="uint32">1543018104</personID>
    <personInfo>
        <listType type="listType">whiteList</listType>
        <name type="string" maxLen="127" dataType="sensitive"><![CDATA[6244]]></name>
        <sex type="sexType">male</sex>
        <age type="uint32">3</age>
        <jobNumber type="string" maxLen="31"><![CDATA[1258]]></jobNumber>
        <identifyNumber type="string" maxLen="127" dataType="sensitive">
            <![CDATA[3174544645]]>
        </identifyNumber>
        <telephone type="string" maxLen="63"><![CDATA[188888888]]></telephone>
        <comment type="string" maxLen="63"><![CDATA[备注]]></comment>
        <password type="string" maxLen="20"><![CDATA[]]></password>
        <accessTypeEx>
            <accessTypeStr type="string" maxLen="63">
                <![CDATA[FaceMatch;SwipingCard]]>
            </accessTypeStr>
            <combinationType type="combinationType">and</combinationType>
        </accessTypeEx>
    </personInfo>
```

```
            <faceImgs type="list" maxCount="5" count="1">
                <item>
                <pictureData type="string" maxLen="95576">
                        <![CDATA[Base64 Picture Data]]>
                </pictureData>
                <pictureNum type="uint32">1</pictureNum>
                <width type="uint32">384</width>
                <height type="uint32">384</height>
                <format type="formatType"></format>
                <size type="uint32">27858</size>
                </item>
            </faceImgs>
            <schedule maxTimeSpan="100" maxYearlyDay="31">
                <period mode="weekly" start="00:00" end="23:59" day="sunday"/>
                <period mode="weekly" start="00:00" end="23:59" day="monday"/>
                <period mode="weekly" start="00:00" end="23:59" day="tuesday"/>
                <period mode="weekly" start="00:00" end="23:59" day="wednesday"/>
                <period mode="weekly" start="00:00" end="23:59" day="thursday"/>
                <period mode="weekly" start="00:00" end="23:59" day="friday"/>
                <period mode="weekly" start="00:00" end="23:59" day="saturday"/>
            </schedule>
        </config>
```

Tips]:

If there is no filter condition, the album ID will be returned in order

21. DeleteTargetFace

DeleteTargetFace	
Description	Delete the face info from the target lib.
Typical URL	POST http://<host>[:port]/DeleteTargetFace[/channelId]
Channel ID	Optional. If none channel ID included in the URL, the default channel ID is 1.
Action name	None
Entity Data	The "deleteAction"element will be included in the entity of request message. For example:

```
<!-- example1: Delete personnel information by ID -->
<?xml version="1.0" encoding="utf-8"?>
<config xmlns="http://www.ipc.com/ver10" version="1.0">
    <types>
        <deleteType>
            <enum>byPersonID</enum>
            <enum>byListType</enum>
```

```xml
                <enum>byName</enum>
                <enum>byIdentifyNumber</enum>
                <enum> removeAll </enum>
            </deleteType>
            <listType>
                <enum>strangerList</enum>
                <enum>whiteList</enum>
                <enum>blackList</enum>
            </listType>
        </types>
        <deleteAction>
            <deleteType type="deleteType">byPersonID</deleteType>
            <personID type="uint32">1543018104</personID>
        </deleteAction>
</config>

<!-- example2: Delete personnel information by list type -->
<?xml version="1.0" encoding="utf-8"?>
<config xmlns="http://www.ipc.com/ver10" version="1.0">
    <types>
        <deleteType>
            <enum>byPersonID</enum>
            <enum>byListType</enum>
            <enum>byName</enum>
            <enum>byIdentifyNumber</enum>
            <enum> removeAll </enum>
        </deleteType>
        <listType>
            <enum>strangerList</enum>
            <enum>whiteList</enum>
            <enum>blackList</enum>
        </listType>
    </types>
    <deleteAction>
        <deleteType type="deleteType">byListType</deleteType>
        <listType type="listType">whiteList</listType>
    </deleteAction>
</config>

<!--example3: Delete personnel information by name-->
<?xml version="1.0" encoding="utf-8"?>
<config xmlns="http://www.ipc.com/ver10" version="1.0">
    <types>
        <deleteType>
```

```xml
            <enum>byPersonID</enum>
            <enum>byListType</enum>
            <enum>byName</enum>
            <enum>byIdentifyNumber</enum>
            <enum> removeAll </enum>
        </deleteType>
        <listType>
            <enum>strangerList</enum>
            <enum>whiteList</enum>
            <enum>blackList</enum>
        </listType>
    </types>
    <deleteAction>
        <deleteType type="deleteType">byName</deleteType>
        <name type="string" maxLen="127">
            <![CDATA[user]]>
        </name>
    </deleteAction>
</config>


<!--example4: Delete All personnel information -->
<?xml version="1.0" encoding="utf-8" ?>
<config version="1.0" xmlns="http://www.ipc.com/ver10">
    <types>
        <deleteType>
            <enum>byPersonID</enum>
            <enum>byListType</enum>
            <enum>byName</enum>
            <enum>byIdentifyNumber</enum>
            <enum> removeAll </enum>
        </deleteType>
     </types>
    <deleteAction>
         <deleteType type="deleteType">removeAll</deleteType>
    </deleteAction>
</config>
```
[Tips]:

22. GetAlarmInConfig

GetAlarmInConfig	
Description	To get the IP media device's alarm input configuration for specific alarm input channel.
Typical URL	POST or GET http://<host>[:port]/GetAlarmInConfig[/channelId]
Channel ID	Optional. If none channel ID included in the URL, the default alarm input channel ID is 1.
Action name	None
Entity Data	None
Successful Response	The alarm inputs configuration will be included in the entity of the Successful response. For example:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<config version="1.0" xmlns="http://www.ipc.com/ver10">
<types>
<alarmInVoltage>
<enum>NO</enum>
<enum>NC</enum>
</alarmInVoltage>
</types>
<sensor>
<id type="uint32">1</id>
<sensorName type="string" maxLen="11"><![CDATA[Sensor1]]></sensorName>
<switch type="boolean">true</switch>
<voltage type="alarmInVoltage">NO</voltage>
<alarmHoldTime type="uint32">10</alarmHoldTime>
<triggerAlarmOut type="list" count="1">
<itemTypetype="boolean"></itemType>
<item id="1">true</item>
</triggerAlarmOut>
<linkageLock type="list" count="2">
<item type="bool" id="0">false</item>
<item type="bool" id="1">false</item>
</linkageLock>
</sensor>
</config>
```

[Tips]:

The "id" attribute for each item starts from "1".

linkageLock：Alarm linkage door lock