PROVISION ISR®

PROTECTING YOUR PRIVACY





Provision-ISR's Long Polling HTTP API

Protocol User Guide

For IP Media Device

Version 1.9

2024-05

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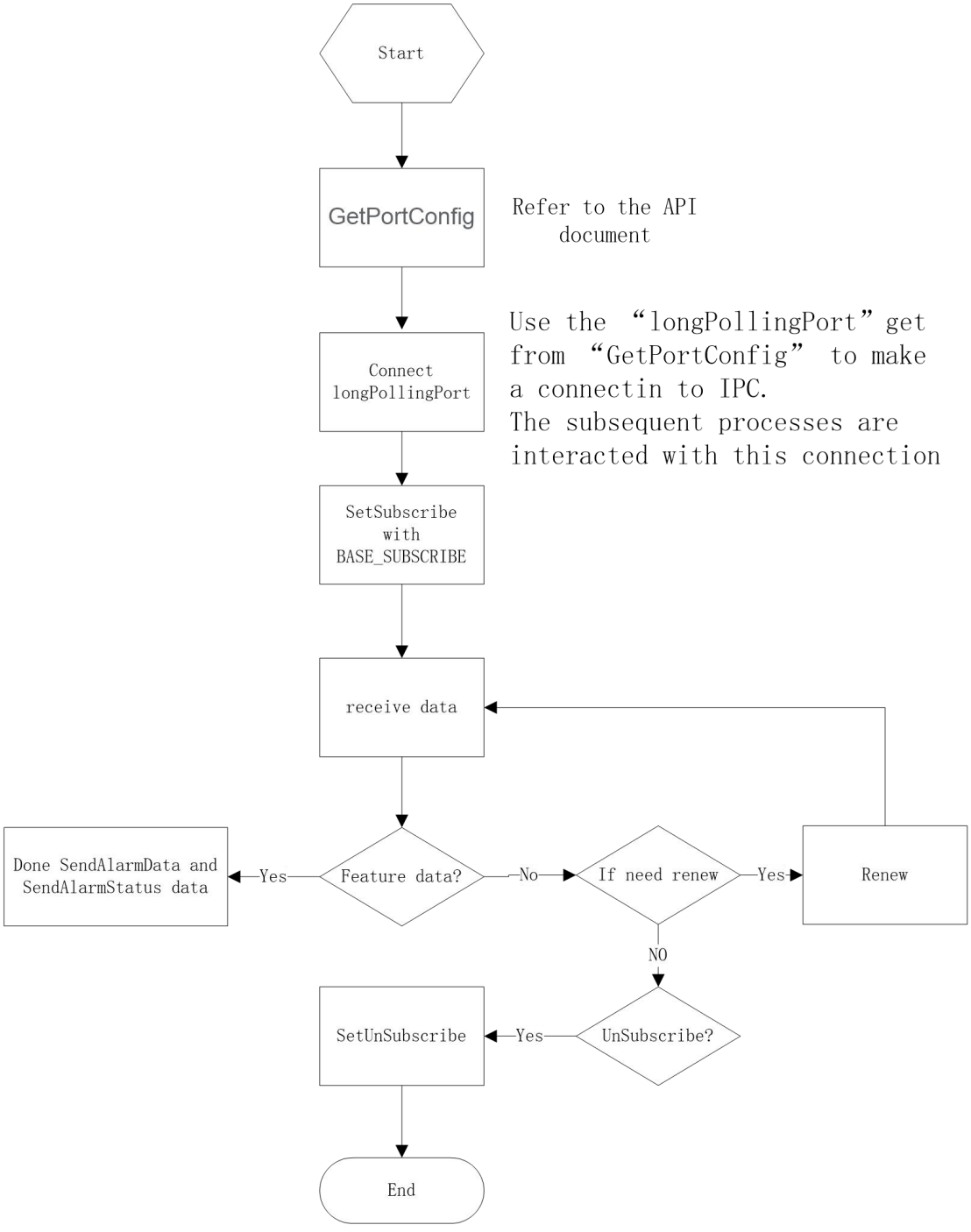
1. Introduction

1.1 Command Summary

CMD	Direction	Note
SetSubscribe	User → IPC	Subscribe to the IPC.
SetRenew	User → IPC	Renew the subscription.
SetUnSubscribe	User → IPC	Unsubscribe to the IPC.
GetPullMessage	User → IPC	To get the alarm status or data from the IPC.
SendAlarmData	User ← IPC	Including the Alarm Data used as a display of some characteristic information.
SendAlarmStatus	User ← IPC	Including the Alarm Status.
SendSubscribeTimeOut	User ← IPC	Indicate subscription timeout

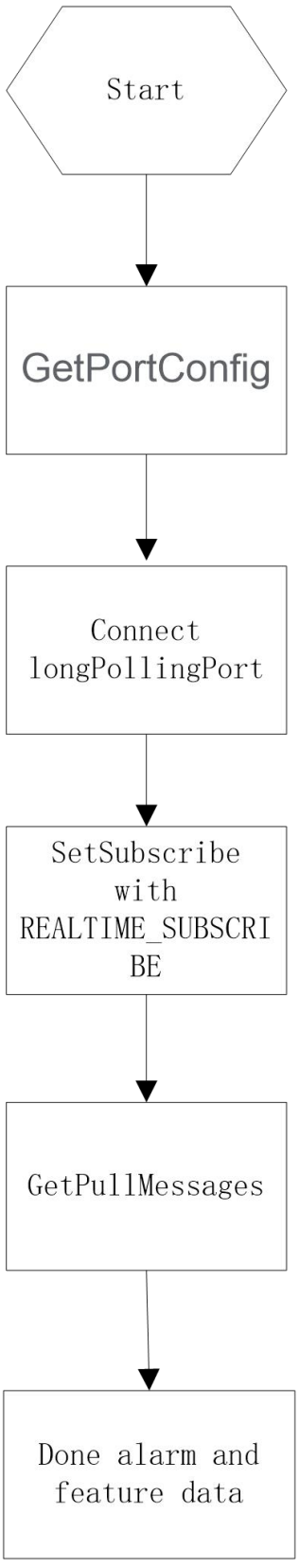
1.2 Flowchart

1.2.1 Base Subscribe



This method is recommended.

1.2.2 Realtime Subscribe



1.2.3 Subscription lifecyle

1． After the tcp connection is established. SetSubscribe message must be sent within 10s and subscription is successful, otherwise the device will disconnect the connection.

2. TCP disconnection the subscription end.

3. SetSubscribe message ‘terminationTime’ Indicates subscription period. Send SetRenew/ GetPullMessages(Realtime) message refresh subscription message within the life cycle to extend the subscription life cycle.

2.Command

2.1 SetSubscribe

SetSubscribe	
Description	Subscribe to smart alerts or feature data functions， You can subscribe to different smart events multiple times. According to the interface "GetPortConfig", For field "longPollingPort" to Connect this port, Data is sent and received through this port.
Typical URL	POST or GET http://<host>[:port]/SetSubscribe
Channel ID	None
Action name	None
Entity Data	None

```
<?xml version="1.0" encoding="UTF-8"?>
<config version="1.0" xmlns="http://www.ipc.com/ver10">
<types>
<smartType>
<!-- Motion Detection Smart search -->
<enum>MOTION</enum>
<!-- Alarm In -->
<enum>SENSOR</enum>
<!-- Line Crossing and Intrusion -->
<enum>PEA</enum>
<!-- Exception -->
<enum>AVD</enum>
```

```
<!-- Object Removal -->
<enum>OSC</enum>
<!-- People Counting -->
<enum>CPC</enum>
<!-- Crowd Density -->
<enum>CDD</enum>
<!-- People Intrusion -->
<enum>IPD</enum>
<!-- Face Detection -->
<enum>VFD</enum>
<!--Face Comparison -->
<enum>VFD_MATCH</enum>
<!-- License Plate Detection-->
<enum>VEHICLE</enum>
<!--Region Entrance -->
<enum>AOIENTRY</enum>
<!-- Region Exiting-->
<enum>AOILEAVE</enum>
<!-- Target Counting by Line-->
<enum>PASSLINECOUNT</enum>
<!--Target Counting by Area -->
<enum>TRAFFIC</enum>
<!--Video Metadata -->
<enum>VSD</enum>
</smartType>
<subscribeOption>
<!-- alarm message -->
<enum>ALARM</enum>
<!-- smart feature result data -->
<enum>FEATURE_RESULT</enum>
<!-- alarm message and smart feature result data -->
<enum>ALARM_FEATURE</enum>
</subscribeOption>
<subscribeTypes>
```

```
<!-- Push the message -->
<enum>BASE_SUBSCRIBE</enum>
<!-- Pull the message -->
<enum>REALTIME_SUBSCRIBE</enum>
<!-- The stream contains alarm messages, not support yet-->
<enum>STREAM_SUBSCRIBE</enum>
</subscribeTypes>
</types>
<channelID type="uint32">1</channelID>
<!-- Initial termination time, Unit second, zero: permanence, No renew is required, non-zero: Subscribe to the time -->
<initTermTime type="uint32">0</initTermTime>
<subscribeFlag type="subscribeTypes">BASE_SUBSCRIBE</subscribeFlag>
<subscribeList type="list" count="15">
<item>
<smartType type="openAlramObj">MOTION</smartType>
<subscribeRelation type="subscribeRelation">ALARM_FEATURE</subscribeRelation>
</item>
<item>
<smartType type="openAlramObj">SENSOR</smartType>
<subscribeRelation type="subscribeRelation">ALARM_FEATURE</subscribeRelation>
</item>
<item>
<smartType type="openAlramObj">PEA</smartType>
<subscribeRelation type="subscribeRelation">ALARM_FEATURE</subscribeRelation>
</item>
<item>
<smartType type="openAlramObj">AVD</smartType>
<subscribeRelation type="subscribeRelation">ALARM_FEATURE</subscribeRelation>
</item>
<item>
<smartType type="openAlramObj">OSC</smartType>
<subscribeRelation type="subscribeRelation">ALARM_FEATURE</subscribeRelation>
</item>
<item>
```

<smartType type="openAlramObj">CPC</smartType>
<subscribeRelation type="subscribeRelation">ALARM_FEATURE</subscribeRelation>
</item>
<item>
<smartType type="openAlramObj">CDD</smartType>
<subscribeRelation type="subscribeRelation">ALARM_FEATURE</subscribeRelation>
</item>
<item>
<smartType type="openAlramObj">IPD</smartType>
<subscribeRelation type="subscribeRelation">ALARM_FEATURE</subscribeRelation>
</item>
<item>
<smartType type="openAlramObj">VFD</smartType>
<subscribeRelation type="subscribeRelation">ALARM_FEATURE</subscribeRelation>
</item>
<item>
<smartType type="openAlramObj">VFD_MATCH</smartType>
<subscribeRelation type="subscribeRelation">ALARM_FEATURE</subscribeRelation>
</item>
<item>
<smartType type="openAlramObj">VEHICLE</smartType>
<subscribeRelation type="subscribeRelation">ALARM_FEATURE</subscribeRelation>
</item>
<item>
<smartType type="openAlramObj">AOIENTRY</smartType>
<subscribeRelation type="subscribeRelation">ALARM_FEATURE</subscribeRelation>
</item>
<item>
<smartType type="openAlramObj">AOILEAVE</smartType>
<subscribeRelation type="subscribeRelation">ALARM_FEATURE</subscribeRelation>
</item>
<item>
<smartType type="openAlramObj">PASSLINECOUNT</smartType>
<subscribeRelation type="subscribeRelation">ALARM_FEATURE</subscribeRelation>

</item>
<item>
<smartType type="openAlramObj">TRAFFIC</smartType>
<subscribeRelation type="subscribeRelation">ALARM_FEATURE</subscribeRelation>
</item>
<item>
<smartType type="openAlramObj">VSD</smartType>
<subscribeRelation type="subscribeRelation">ALARM_FEATURE</subscribeRelation>
</item>
</subscribeList>
</config>

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

```
<?xml version="1.0" encoding="UTF-8" ?>
<config version="1.0" xmlns="http://www.ipc.com/ver10">
    <!-- Subscribe to identify for SetRenew/SetUnSubscribe/GetPullMessages -->
    <serverAddress type="string" ><![CDATA[http://192.168.13.178:8080/IPC/event/subsription_0]]>
    </serverAddress>
    <currentTime type="uint32">1506310717</currentTime>
    <terminationTime type="uint32">1537846717</terminationTime>
    <!-- timeout for GetPullMessages -->
    <timeout type="uint32" min="0" max="10" default="5">5</timeout>
</config>
```

[Tips]:

The way to feedback message：

- BASE_SUBSCRIBE（IPC would push message initiatively）
- REALTIME_SUBSCRIBE（subscriber inquire the message initiatively）
- STREAM_SUBSCRIBE （ message is Contained in the audio and video data stream <currently not support>）

2.2 SetRenew

SetRenew

Description	Renew subscription time.
Typical URL	POST or GET http://<host>[:port]/SetRenew
Channel ID	None
Action name	None
Entity Data	None
<?xml version="1.0" encoding="UTF-8"?> <config version="1.0" xmlns="http://www.ipc.com/ver10"> <serverAddress type="string" ><![CDATA[http://192.168.13.178:8080/IPC/event/subsription_0]]> </serverAddress> <renewTime type="uint32">60</renewTime> </config>	
Successful Response	The Renew will be included in the entity of the successful response. For example:
<?xml version="1.0" encoding="UTF-8" ?> <config version="1.0" xmlns="http://www.ipc.com/ver10"> <currentTime type="uint32">1506311038</currentTime> <terminationTime type="uint32">1506311098</terminationTime> </config>	
[Tips]:	

2.3 SetUnSubscribe

SetUnSubscribe	
Description	To unsubscribe.
Typical URL	POST or GET http://<host>[:port]/SetUnSubscribe
Channel ID	None
Action name	None
Entity Data	None

<table>
<tr><td colspan="2"><?xml version="1.0" encoding="UTF-8"?>
<config version="1.0" xmlns="http://www.ipc.com/ver10">
<serverAddress type="string" ><![CDATA[http://192.168.13.178:8080/IPC/event/subsription_1]]></serverAddress>
</config></td></tr>
<tr><td>Successful Response</td><td></td></tr>
<tr><td colspan="2"><?xml version="1.0" encoding="UTF-8"?>
<config version="1.0" xmlns="http://www.ipc.com/ver10" status="success" errorCode="200"/></td></tr>
<tr><td colspan="2">[Tips]:</td></tr>
</table>

2.4 GetPullMessages

<table>
<tr><th colspan="2">GetPullMessages</th></tr>
<tr><td>Description</td><td>To get pull message. Only used when the "subscribeFlag" of "SetSubscribe" set to "REALTIME_SUBSCRIBE".</td></tr>
<tr><td>Typical URL</td><td>POST or GET http://<host>[:port]/GetPullMessages</td></tr>
<tr><td>Channel ID</td><td>None</td></tr>
<tr><td>Action name</td><td>None</td></tr>
<tr><td>Entity Data</td><td>None</td></tr>
<tr><td colspan="2"><?xml version="1.0" encoding="UTF-8"?>
<config version="1.0" xmlns="http://www.ipc.com/ver10">
<serverAddress type="string" ><![CDATA[http://192.168.13.178:8080/IPC/event/subsription_0]]></serverAddress>
<timeout type="uint32" >20</timeout>
<messageLimit type="uint32">10</messageLimit>
</config></td></tr>
<tr><td>Successful Response</td><td></td></tr>
<tr><td colspan="2"><?xml version="1.0" encoding="UTF-8" ?>
<config version="1.0" xmlns="http://www.ipc.com/ver10">
<currentTime type="uint32">1506318051</currentTime></td></tr>
</table>

```
<terminationTime type="uint32">1506318111</terminationTime>
<alarmInfoList type="list" count="3">
    <item>
        <alarmStatusInfo>
            <motionAlarm type="boolean" id="1">true</motionAlarm>
            <sensorAlarmIn type="list" count="1">
                <itemType type="boolean"/>
                <item id="1">false</item>
            </sensorAlarmIn>
            <perimeterAlarm type="boolean" id="1">false</perimeterAlarm>
            <tripwireAlarm type="boolean" id="1">false</tripwireAlarm>
            <oscAlarm type="boolean" id="1">false</oscAlarm>
            <sceneChange type="boolean" id="1">false</sceneChange>
            <clarityAbnormal type="boolean" id="1">false</clarityAbnormal >
            <colorAbnormal type="boolean" id="1">false</colorAbnormal >
            <cpcAlarm type="boolean" id="1">false</cpcAlarm>
            <ipdAlarm type="boolean" id="1">false</ipdAlarm>
            <cddAlarm type="boolean" id="1">false</cddAlarm>
            <vfdAlarm type="boolean" id="1">false</vfdAlarm>
        </alarmStatusInfo>
        <dataTime type="string"><![CDATA[2017-09-25 05:39:56]]></dataTime>
        <deviceInfo>
            <deviceName type="string"><![CDATA[IPC]]></deviceName>
            <deviceNumber type="string"><![CDATA[1]]></deviceNumber>
            <sn type="string"><![CDATA[I1EDC027R222]]></sn>
            <ipAddress type="string"><![CDATA[192.168.13.178]]></ipAddress>
            <macAddress type="string"><![CDATA[00:18:ae:5e:1e:dc]]></macAddress>
        </deviceInfo>
    </item>
    <item>
        <alarmStatusInfo>
            <motionAlarm type="boolean" id="1">false</motionAlarm>
            <sensorAlarmIn type="list" count="1">
                <itemType type="boolean"/>
```

```
                    <item id="1">false</item>
                </sensorAlarmIn>
                <perimeterAlarm type="boolean" id="1">false</perimeterAlarm>
                <tripwireAlarm type="boolean" id="1">false</tripwireAlarm>
                <oscAlarm type="boolean" id="1">false</oscAlarm>
                <sceneChange type="boolean" id="1">false</sceneChange>
                <clarityAbnormal type="boolean" id="1">false</clarityAbnormal >
                <colorAbnormal type="boolean" id="1">false</colorAbnormal>
                <cpcAlarm type="boolean" id="1">false</cpcAlarm>
                <ipdAlarm type="boolean" id="1">false</ipdAlarm>
                <cddAlarm type="boolean" id="1">false</cddAlarm>
                <vfdAlarm type="boolean" id="1">false</vfdAlarm>
            </alarmStatusInfo>
            <dataTime type="string"><![CDATA[2017-09-25 05:40:31]]></dataTime>
            <deviceInfo>
                <deviceName type="string"><![CDATA[IPC]]></deviceName>
                <deviceNumber type="string"><![CDATA[1]]></deviceNumber>
                <sn type="string"><![CDATA[I1EDC027R222]]></sn>
                <ipAddress type="string"><![CDATA[192.168.13.178]]></ipAddress>
                <macAddress type="string"><![CDATA[00:18:ae:5e:1e:dc]]></macAddress>
            </deviceInfo>
        </item>
        <item>
            <alarmStatusInfo>
                <motionAlarm type="boolean" id="1">true</motionAlarm>
                <sensorAlarmIn type="list" count="1">
                    <itemType type="boolean"/>
                    <item id="1">false</item>
                </sensorAlarmIn>
                <perimeterAlarm type="boolean" id="1">false</perimeterAlarm>
                <tripwireAlarm type="boolean" id="1">false</tripwireAlarm>
                <oscAlarm type="boolean" id="1">false</oscAlarm>
                <sceneChange type="boolean" id="1">false</sceneChange>
                <clarityAbnormal type="boolean" id="1">false</ clarityAbnormal >
```

<colorAbnormaltype="boolean" id="1">false</colorAbnormal>
<cpcAlarm type="boolean" id="1">false</cpcAlarm>
<ipdAlarm type="boolean" id="1">false</ipdAlarm>
<cddAlarm type="boolean" id="1">false</cddAlarm>
<vfdAlarm type="boolean" id="1">false</vfdAlarm>
</alarmStatusInfo>
<dataTime type="string"><![CDATA[2017-09-25 05:40:45]]></dataTime>
<deviceInfo>
<deviceName type="string"><![CDATA[IPC]]></deviceName>
<deviceNumber type="string"><![CDATA[1]]></deviceNumber>
<sn type="string"><![CDATA[I1EDC027R222]]></sn>
<ipAddress type="string"><![CDATA[192.168.13.178]]></ipAddress>
<macAddress type="string"><![CDATA[00:18:ae:5e:1e:dc]]></macAddress>
</deviceInfo>
</item>
</alarmInfoList>
</config>

[Tips]:

2.5 SendAlarmData

SendAlarmData	
Description	To send the alarm data to the subscribe server when an alarm happens. This command will be used by the device. The subscribe server should provide HTTP service to receive this command. Only used when the "subscribeFlag" of "SetSubscribe" set to "BASE_SUBSCRIBE".
Typical URL	POST http://<alarm server>[:port]/SendAlarmData
Channel ID	None
Action name	None
Entity Data	The alarm data should be included in the entity of request message.

<!-- OSC Feature data return -->

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

```
<config version="1.0" xmlns="http://www.ipc.com/ver10">
    <types>
    <smartType>
        <enum>MOTION</enum>
        <enum>SENSOR</enum>
        <enum>PEA</enum>
        <enum>PEA</enum>
        <enum>AVD</enum>
        <enum>OSC</enum>
        <enum>CPC</enum>
        <enum>CDD</enum>
        <enum>IPD</enum>
        <enum>VFD</enum>
    </smartType>
    <subscribeOption>
        <enum>ALARM</enum>
        <enum>FEATURE_RESULT</enum>
        <enum>FEATURE_RULE</enum>
    </subscribeOption>
    </types>
    <smartType type="smartType">OSC</smartType>
    <subscribeRelation type="subscribeOption">FEATURE_RULE</subscribeRelation>
    <enable type="boolean">1</enable>
    <boundaryPara type="list" count="1">
        <item>
            <point type="list" count="6">
                <item>
                    <x type="uint32">950</x>
                    <y type="uint32">2533</y>
                </item>
                <item>
                    <x type="uint32">5325</x>
                    <y type="uint32">2433</y>
                </item>
```

```
                    <item>
                        <x type="uint32">8700</x>
                        <y type="uint32">5100</y>
                    </item>
                    <item>
                        <x type="uint32">7825</x>
                        <y type="uint32">6800</y>
                    </item>
                    <item>
                        <x type="uint32">5025</x>
                        <y type="uint32">7500</y>
                    </item>
                    <item>
                        <x type="uint32">2025</x>
                        <y type="uint32">6733</y>
                    </item>
                </point>
            </item>
        </boundaryPara>
</config>

<!-- Motion Smart search Feature data return -->
<?xml version="1.0" encoding="UTF-8" ?>
<config version="1.7" xmlns="http://www.ipc.com/ver10">
        <types>
            <smartType>
                <enum>MOTION</enum>
                <enum>SENSOR</enum>
                <enum>PEA</enum>
                <enum>PEA</enum>
                <enum>AVD</enum>
                <enum>OSC</enum>
                <enum>CPC</enum>
                <enum>CDD</enum>
```

```
            <enum>IPD</enum>
            <enum>VFD</enum>
        </smartType>
        <subscribeOption>
            <enum>ALARM</enum>
            <enum>FEATURE_RESULT</enum>
            <enum>FEATURE_RULE</enum>
        </subscribeOption>
    </types>
    <smartType type="smartType">MOTION</smartType>
    <subscribeRelation type="subscribeOption">FEATURE_RULE</subscribeRelation>
    <timeStamp type="uint64">18935223450</timeStamp>
    <!-- Compression type, currently not used Fill in zero -->
    <compressType type="uint16">0</compressType>
    <widthDivideNum type="uint8">22</widthDivideNum>
    <heightDivideNum type="uint8">18</heightDivideNum>
    <dataList type="list" count="18">
        <item>
            <data type="uint32">4194303</data>
        </item>
        <item>
            <data type="uint32">4194303</data>
        </item>
        <item>
            <data type="uint32">4194303</data>
        </item>
        <item>
            <data type="uint32">4194175</data>
        </item>
        <item>
            <data type="uint32">4194303</data>
        </item>
        <item>
            <data type="uint32">4192767</data>
```

```
</item>
<item>
    <data type="uint32">4192767</data>
</item>
<item>
    <data type="uint32">4194295</data>
</item>
<item>
    <data type="uint32">4194299</data>
</item>
<item>
    <data type="uint32">4194299</data>
</item>
<item>
    <data type="uint32">4194299</data>
</item>
<item>
    <data type="uint32">4194303</data>
</item>
<item>
    <data type="uint32">4194303</data>
</item>
<item>
    <data type="uint32">4191231</data>
</item>
<item>
    <data type="uint32">4193279</data>
</item>
<item>
    <data type="uint32">4194247</data>
</item>
<item>
    <data type="uint32">4194247</data>
</item>
```

```
            <item>
                <data type="uint32">4194247</data>
            </item>
        </dataList>
</config>

<!-- VFD Feature data return -->
<?xml version="1.0" encoding="UTF-8" ?>
<config version="1.7" xmlns="http://www.ipc.com/ver10">
        <types>
            <smartType>
                <enum>MOTION</enum>
                <enum>SENSOR</enum>
                <enum>PEA</enum>
                <enum>PEA</enum>
                <enum>AVD</enum>
                <enum>OSC</enum>
                <enum>CPC</enum>
                <enum>CDD</enum>
                <enum>IPD</enum>
                <enum>VFD</enum>
            </smartType>
            <subscribeOption>
                <enum>ALARM</enum>
                <enum>FEATURE_RESULT</enum>
                <enum>FEATURE_RULE</enum>
            </subscribeOption>
        </types>
        <smartType type="smartType">VFD</smartType>
        <subscribeRelation type="subscribeOption">FEATURE_RESULT</subscribeRelation>
        <currentTime type="tint64">1515483026560502</currentTime>
        <relativeTime type="tint64">24713944126</relativeTime>
        <sourceDataInfo>
            <!-- 0, JPG; 1, YUV -->
```

```
        <dataType type="uint32">0</dataType>
        <!--0, Initial; 1, VALID; 2, SAVED -->
        <status type="uint32">0</status>
        <width type="uint32">0</width>
        <height type="uint32">0</height>
    </sourceDataInfo>
    <listInfo type="list" count="1">
        <item>
            <faceId type="tuint32">183</faceId>
            <Width type="tuint32">1920</Width>
            <Height type="tuint32">1080</Height>
            <!-- Left-Top Face Coordinates -->
            <leftTop>
                <x type="uint32">363</x>
                <y type="uint32">402</y>
            </leftTop>
            <!-- Right-Top Face Coordinates -->
            <rightTop>
                <x type="uint32">669</x>
                <y type="uint32">336</y>
            </rightTop>
            <!-- Left-Bottom    Face Coordinates -->
            <leftBottom>
                <x type="uint32">429</x>
                <y type="uint32">708</y>
            </leftBottom>
            <!-- Right-Bottom Face Coordinates -->
            <rightBottom>
                <x type="uint32">735</x>
                <y type="uint32">642</y>
            </rightBottom>
            <!-- Face Pose -->
            <pose type="tuint32">-45</pose>
            <!-- Confidence Degree -->
```

```
                <confidence type="tuint32">788</confidence>
                <!-- nonsupport -->
                <age type="tuint32">0</age>
                <sex type="tuint32">0</sex>
                <frames type="tuint32">62</frames>
                <!--Face top left coordinates (location of source image)-->
                <PosFaceImage>
                    <x type="uint32">735</x>
                    <y type="uint32">673</y>
                </PosFaceImage>
                <FaceImageData>
                    <!--0, JPG; 1, YUV -->
                    <dataType type="uint32">0</dataType>
                    <!--0,Initial; 1,VALID; 2,SAVED -->
                    <status type="uint32">2</status>
                    <width type="uint32">0</width>
                    <height type="uint32">0</height>
                </FaceImageData>
            </item>
        </listInfo>
</config>

<!--    The VFD original data -->
<!--    CurrentTime: Is the current time in the feature data -->
POST /SendAlarmData/SourcePicture HTTP/1.1
Host: 10.20.18.13
Content-Type: application/octet-stream
Content-Length: 132550
Connection: keep-alive
CurrentTime: 1515483026560502

VFD Original image binary data.

<!-- Face data -->
```

```
<!--  FacePicture for 242 is consistent with the face ID of the feature data -->
POST /SendAlarmData/FacePicture/242 HTTP/1.1
Host: 10.20.18.13
Content-Type: application/octet-stream
Content-Length: 66155
Connection: keep-alive
CurrentTime: 1515483026560502

Face image binary data
<!-- CPC Feature data return -->
<?xml version="1.0" encoding="UTF-8" ?>
<config version="1.7" xmlns="http://www.ipc.com/ver10">
    <types>
        <smartType>
            <enum>MOTION</enum>
            <enum>SENSOR</enum>
            <enum>PEA</enum>
            <enum>PEA</enum>
            <enum>AVD</enum>
            <enum>OSC</enum>
            <enum>CPC</enum>
            <enum>CDD</enum>
            <enum>IPD</enum>
            <enum>VFD</enum>
        </smartType>
        <subscribeOption>
            <enum>ALARM</enum>
            <enum>FEATURE_RESULT</enum>
            <enum>FEATURE_RULE</enum>
        </subscribeOption>
    </types>
    <cpcType>
        <enum>SMART_CPC_BUTT</enum>
        <enum>SMART_CPC_ENTER</enum>
```

```
            <enum>SMART_CPC_LEAVE</enum>
        </cpcType>
        <smartType type="smartType">CPC</smartType>
        <subscribeRelation type="subscribeOption">FEATURE_RESULT</subscribeRelation>
        <relativeTime type="tint64">103419874</relativeTime>
        <crossInNumber type="uint32">0</crossInNumber>
        <crossOutNumber type="uint32">15</crossOutNumber>
        <listInfo type="list" count="1">
            <item>
                <crossLineType type="cpcType">SMART_CPC_BUTT</crossLineType>
                <rect>
                    <x1 type="uint32">4468</x1>
                    <y1 type="uint32">7111</y1>
                    <x2 type="uint32">6250</x2>
                    <y2 type="uint32">10000</y2>
                </rect>
            </item>
        </listInfo>
</config>

<!--  IPD Feature data return -->
<?xml version="1.0" encoding="UTF-8" ?>
<config version="1.7" xmlns="http://www.ipc.com/ver10">
        <types>
            <smartType>
                <enum>MOTION</enum>
                <enum>SENSOR</enum>
                <enum>PEA</enum>
                <enum>PEA</enum>
                <enum>AVD</enum>
                <enum>OSC</enum>
                <enum>CPC</enum>
                <enum>CDD</enum>
                <enum>IPD</enum>
```

```
            <enum>VFD</enum>
        </smartType>
        <subscribeOption>
            <enum>ALARM</enum>
            <enum>FEATURE_RESULT</enum>
            <enum>FEATURE_RULE</enum>
        </subscribeOption>
    </types>
    <smartType type="smartType">IPD</smartType>
    <subscribeRelation type="subscribeOption">FEATURE_RESULT</subscribeRelation>
    <relativeTime type="tint64">2910415476</relativeTime>
    <triggerAlarm type="boolean">1</triggerAlarm>
    <listInfo type="list" count="4">
        <item>
            <targerId type="tuint32">0</targerId>
            <rect>
                <x1 type="uint32">4843</x1>
                <y1 type="uint32">3611</y1>
                <x2 type="uint32">6562</x2>
                <y2 type="uint32">6333</y2>
            </rect>
        </item>
        <item>
            <targerId type="tuint32">0</targerId>
            <rect>
                <x1 type="uint32">4156</x1>
                <y1 type="uint32">2833</y1>
                <x2 type="uint32">5000</x2>
                <y2 type="uint32">4444</y2>
            </rect>
        </item>
        <item>
            <targerId type="tuint32">0</targerId>
            <rect>
```

```
                    <x1 type="uint32">8593</x1>
                    <y1 type="uint32">4722</y1>
                    <x2 type="uint32">9906</x2>
                    <y2 type="uint32">7055</y2>
                </rect>
            </item>
            <item>
                <targerId type="tuint32">0</targerId>
                <rect>
                    <x1 type="uint32">531</x1>
                    <y1 type="uint32">5722</y1>
                    <x2 type="uint32">1281</x2>
                    <y2 type="uint32">7055</y2>
                </rect>
            </item>
        </listInfo>
</config>

<!--    CDD Feature data return -->
<?xml version="1.0" encoding="UTF-8" ?>
<config version="1.7" xmlns="http://www.ipc.com/ver10">
        <types>
            <smartType>
                <enum>MOTION</enum>
                <enum>SENSOR</enum>
                <enum>PEA</enum>
                <enum>PEA</enum>
                <enum>AVD</enum>
                <enum>OSC</enum>
                <enum>CPC</enum>
                <enum>CDD</enum>
                <enum>IPD</enum>
                <enum>VFD</enum>
            </smartType>
```

```
            <subscribeOption>
                <enum>ALARM</enum>
                <enum>FEATURE_RESULT</enum>
                <enum>FEATURE_RULE</enum>
            </subscribeOption>
        </types>
        <smartType type="smartType">CDD</smartType>
        <subscribeRelation type="subscribeOption">FEATURE_RESULT</subscribeRelation>
        <listInfo type="list" count="1">
            <item>
                <!-- Crowd Density ratio -->
                <ratio type="tuint32">10</ratio>
                <alarmThreshold type="tuint32">50</alarmThreshold>
                <rect>
                    <x1 type="uint32">328</x1>
                    <y1 type="uint32">1006</y1>
                    <x2 type="uint32">9570</x2>
                    <y2 type="uint32">9687</y2>
                </rect>
            </item>
        </listInfo>
</config>

<!--    PEA perimeter Feature data return -->
<?xml version="1.0" encoding="UTF-8" ?>
<config version="1.7" xmlns="http://www.ipc.com/ver10">
        <types>
            <smartType>
                <enum>MOTION</enum>
                <enum>SENSOR</enum>
                <enum>PEA</enum>
                <enum>PEA</enum>
                <enum>AVD</enum>
                <enum>OSC</enum>
```

```
            <enum>CPC</enum>
            <enum>CDD</enum>
            <enum>IPD</enum>
            <enum>VFD</enum>
        </smartType>
        <subscribeOption>
            <enum>ALARM</enum>
            <enum>FEATURE_RESULT</enum>
            <enum>FEATURE_RULE</enum>
        </subscribeOption>
        <smartStatus>
            <enum>SMART_NONE</enum>
            <enum>SMART_START</enum>
            <enum>SMART_STOP</enum>
            <enum>SMART_PROCEDURE</enum>
        </smartStatus>
    </types>
    <smartType type="smartType">PEA</smartType>
    <subscribeRelation type="subscribeOption">FEATURE_RESULT</subscribeRelation>
    <perimeter>
        <perInfo type="list" count="1">
            <item>
                <eventId type="uint32">7394</eventId>
                <targetId type="uint32">2415966768</targetId>
                <status type="smartStatus">SMART_PROCEDURE</status>
                <boundary type="list" count="6">
                    <item>
                        <point>
                            <x type="uint32">8150</x>
                            <y type="uint32">8466</y>
                        </point>
                    </item>
                    <item>
                        <point>
```

```
                    <x type="uint32">7075</x>
                    <y type="uint32">1133</y>
                </point>
            </item>
            <item>
                <point>
                    <x type="uint32">3025</x>
                    <y type="uint32">433</y>
                </point>
            </item>
            <item>
                <point>
                    <x type="uint32">925</x>
                    <y type="uint32">700</y>
                </point>
            </item>
            <item>
                <point>
                    <x type="uint32">275</x>
                    <y type="uint32">5000</y>
                </point>
            </item>
            <item>
                <point>
                    <x type="uint32">475</x>
                    <y type="uint32">7833</y>
                </point>
            </item>
        </boundary>
        <rect>
            <x1 type="uint32">1590</x1>
            <y1 type="uint32">0</y1>
            <x2 type="uint32">2272</x2>
            <y2 type="uint32">2361</y2>
```

```
                    </rect>
                </item>
            </perInfo>
        </perimeter>
        <tripwire>
            <tripInfo type="list" count="0">
            </tripInfo>
        </tripwire>
</config>

<!-- PEA tripwire Feature data return -->
<?xml version="1.0" encoding="UTF-8" ?>
<config version="1.7" xmlns="http://www.ipc.com/ver10">
    <types>
        <smartType>
            <enum>MOTION</enum>
            <enum>SENSOR</enum>
            <enum>PEA</enum>
            <enum>PEA</enum>
            <enum>AVD</enum>
            <enum>OSC</enum>
            <enum>CPC</enum>
            <enum>CDD</enum>
            <enum>IPD</enum>
            <enum>VFD</enum>
        </smartType>
        <subscribeOption>
            <enum>ALARM</enum>
            <enum>FEATURE_RESULT</enum>
            <enum>FEATURE_RULE</enum>
        </subscribeOption>
        <smartStatus>
            <enum>SMART_NONE</enum>
            <enum>SMART_START</enum>
```

```
            <enum>SMART_STOP</enum>
            <enum>SMART_PROCEDURE</enum>
        </smartStatus>
    </types>
    <smartType type="smartType">PEA</smartType>
    <subscribeRelation type="subscribeOption">FEATURE_RESULT</subscribeRelation>
    <perimeter>
        <perInfo type="list" count="0">
        </perInfo>
    </perimeter>
    <tripwire>
        <tripInfo type="list" count="1">
            <item>
                <eventId type="uint32">3</eventId>
                <targetId type="uint32">2415919119</targetId>
                <status type="smartStatus">SMART_PROCEDURE</status>
                <line>
                    <x1 type="uint32">1250</x1>
                    <y1 type="uint32">1805</y1>
                </line>
                <rect>
                    <x1 type="uint32">3181</x1>
                    <y1 type="uint32">2638</y1>
                    <x2 type="uint32">3579</x2>
                    <y2 type="uint32">4166</y2>
                </rect>
            </item>
        </tripInfo>
    </tripwire>
</config>

<!-- AVD Feature data return -->
<?xml version="1.0" encoding="UTF-8" ?>
<config version="1.7" xmlns="http://www.ipc.com/ver10">
```

```
<types>
    <smartType>
        <enum>MOTION</enum>
        <enum>SENSOR</enum>
        <enum>PEA</enum>
        <enum>PEA</enum>
        <enum>AVD</enum>
        <enum>OSC</enum>
        <enum>CPC</enum>
        <enum>CDD</enum>
        <enum>IPD</enum>
        <enum>VFD</enum>
    </smartType>
    <subscribeOption>
        <enum>ALARM</enum>
        <enum>FEATURE_RESULT</enum>
        <enum>FEATURE_RULE</enum>
    </subscribeOption>
    <detectResult>
        <enum>SMART_AVD_NONE</enum>
        <enum>SMART_AVD_SCENE</enum>
        <enum>SMART_AVD_CLARITY</enum>
        <enum>SMART_AVD_COLOR</enum>
    </detectResult>
    <smartStatus>
        <enum>SMART_NONE</enum>
        <enum>SMART_START</enum>
        <enum>SMART_STOP</enum>
        <enum>SMART_PROCEDURE</enum>
    </smartStatus>
</types>
<smartType type="smartType">AVD</smartType>
<subscribeRelation type="subscribeOption">FEATURE_RESULT</subscribeRelation>
<listInfo type="list" count="2">
```

<item>
<eventId type="uint32">0</eventId>
<status type="smartStatus">SMART_STOP</status>
<alarmType type="detectResult">SMART_AVD_SCENE</alarmType>
</item>
<item>
<eventId type="uint32">0</eventId>
<status type="smartStatus">SMART_STOP</status>
<alarmType type="detectResult">SMART_AVD_CLARITY</alarmType>
</item>
</listInfo>
</config>

Successful Response	NONE

[Tips]:

The alarm data get from this command is used as a display of some characteristic information.

2.5.1 MOTION

SendAlarmData	
Description	To send the alarm data to the subscribe server when an alarm happens. This command will be used by the device. The subscribe server should provide HTTP service to receive this command. Only used when the "subscribeFlag" of "SetSubscribe" set to "BASE_SUBSCRIBE".
Typical URL	POST http://<alarm server>[:port]/SendAlarmData
Channel ID	None
Action name	None
Entity Data	The alarm data should be included in the entity of request message.

<!-- MOTION Feature data return -->

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

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

<types>

<smartType>

<enum>MOTION</enum>
<enum>SENSOR</enum>
<enum>PERIMETER</enum>
<enum>TRIPWIRE</enum>
<enum>PEA</enum>
<enum>AVD</enum>
<enum>OSC</enum>
<enum>CPC</enum>
<enum>CDD</enum>
<enum>IPD</enum>
<enum>VFD</enum>
<enum>VEHICLE</enum>
<enum>AOIENTRY</enum>
<enum>AOILEAVE</enum>
<enum>PASSLINECOUNT</enum>
<enum>TRAFFIC</enum>
</smartType>
<subscribeOption>
<enum>ALARM</enum>
<enum>FEATURE_RESULT</enum>
<enum>FEATURE_RULE</enum>
</subscribeOption>
</types>
<smartType type="openAlramObj">MOTION</smartType>
<subscribeRelation type="subscribeOption">FEATURE_RULE</subscribeRelation>
<currentTime type="tint64">1563526181864686</currentTime>
<compressType type="uint16">0</compressType>
<widthDivideNum type="uint8">22</widthDivideNum>
<heightDivideNum type="uint8">18</heightDivideNum>
<dataList type="list" count="18">
<item>
<data type="uint32">0</data>
</item>
<item>

```
<data type="uint32">384</data>
</item>
<item>
<data type="uint32">128</data>
</item>
<item>
<data type="uint32">7680</data>
</item>
<item>
<data type="uint32">0</data>
</item>
<item>
<data type="uint32">0</data>
</item>
<item>
<data type="uint32">0</data>
</item>
<item>
<data type="uint32">0</data>
</item>
<item>
<data type="uint32">0</data>
</item>
<item>
<data type="uint32">0</data>
</item>
<item>
<data type="uint32">0</data>
</item>
<item>
<data type="uint32">0</data>
</item>
<item>
<data type="uint32">0</data>
</item>
<item>
<data type="uint32">0</data>
```

```
</item>
<item>
<data type="uint32">0</data>
</item>
<item>
<data type="uint32">0</data>
</item>
<item>
<data type="uint32">0</data>
</item>
<item>
<data type="uint32">0</data>
</item>
<item>
<data type="uint32">0</data>
</item>
</dataList>
</config>
```

2.5.2 SENSOR

SendAlarmData	
Description	To send the alarm data to the subscribe server when an alarm happens. This command will be used by the device. The subscribe server should provide HTTP service to receive this command. Only used when the "subscribeFlag" of "SetSubscribe" set to "BASE_SUBSCRIBE".
Typical URL	POST http://<alarm server>[:port]/SendAlarmData
Channel ID	None
Action name	None
Entity Data	The alarm data should be included in the entity of request message.
<!-- SENSOR Feature data return -->	

2.5.3 PEA (DDA1 - Line Crossing + Sterile Area)

SendAlarmData	
Description	To send the alarm data to the subscribe server when an alarm happens. This command will be used by the device. The subscribe server should provide HTTP service to receive this command. Only used when the "subscribeFlag" of "SetSubscribe" set to "BASE_SUBSCRIBE".
Typical URL	POST http://<alarm server>[:port]/SendAlarmData
Channel ID	None
Action name	None
Entity Data	The alarm data should be included in the entity of request message.

<!-- PEA tripwire Feature data return -->

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

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

<types>

<smartType>

<enum>MOTION</enum>

<enum>SENSOR</enum>

<enum>PERIMETER</enum>

<enum>TRIPWIRE</enum>

<enum>PEA</enum>

<enum>AVD</enum>

<enum>OSC</enum>

<enum>CPC</enum>

<enum>CDD</enum>

<enum>IPD</enum>

<enum>VFD</enum>

<enum>VEHICLE</enum>

<enum>AOIENTRY</enum>

<enum>AOILEAVE</enum>

<enum>PASSLINECOUNT</enum>

<enum>TRAFFIC</enum>

```
</smartType>
<subscribeOption>
<enum>ALARM</enum>
<enum>FEATURE_RESULT</enum>
<enum>FEATURE_RULE</enum>
</subscribeOption>
<smartStatus>
<enum>SMART_NONE</enum>
<enum>SMART_START</enum>
<enum>SMART_STOP</enum>
<enum>SMART_PROCEDURE</enum>
</smartStatus>
</types>
<smartType type="openAlramObj">PEA</smartType>
<subscribeRelation type="subscribeOption">FEATURE_RESULT</subscribeRelation>
<currentTime type="tint64">1563527727042226</currentTime>
<tripwire>
<tripInfo type="list" count="1">
<item>
<eventId type="uint32">238</eventId>
<targetId type="uint32">138</targetId>
<status type="smartStatus">SMART_START</status>
<line>
<x1 type="uint32">3175</x1>
<y1 type="uint32">2800</y1>
</line>
<rect>
<x1 type="uint32">227</x1>
<y1 type="uint32">0</y1>
<x2 type="uint32">6136</x2>
<y2 type="uint32">9027</y2>
</rect>
</item>
</tripInfo>
```

```
</tripwire>
<sourceDataInfo>
<relativeTime type="tint64">476664973</relativeTime>
<!-- 0, JPG; 1, YUV -->
<dataType type="uint32">0</dataType>
<width type="uint32">1920</width>
<height type="uint32">1080</height>
<!-- Length of encrypted source data Base64 -->
<sourceBase64Length type="uint32">152866</sourceBase64Length>
<!-- Base64 Encryption of Source Data -->
<sourceBase64Data type="string"><![CDATA[/9j/4AA.....]]></sourceBase64Data>
</sourceDataInfo>
<listInfo type="list" count="1">
<item>
<targetId type="tuint32">138</targetId>
<rect>
<x1 type="uint32">223</x1>
<y1 type="uint32">0</y1>
<x2 type="uint32">6130</x2>
<y2 type="uint32">9027</y2>
</rect>
<targetImageData>
<!-- 0, JPG; 1, YUV -->
<dataType type="uint32">0</dataType>
<!-- 1:person;2:car;4:bike-->
<targetType type="uint32">1</targetType>
<Width type="tuint32">1396</Width>
<Height type="tuint32">1080</Height>
<!-- Length of encrypted face data Base64 -->
<targetBase64Length type="uint32">105134</targetBase64Length>
<!-- Base64 Encryption of face Data -->
<targetBase64Data type="string"><![CDATA[/9j/4AA.....]]></targetBase64Data>
</targetImageData>
</item>
```

```
</listInfo>
</config>
<!--  PEA perimeter Feature data return -->
<?xml version="1.0" encoding="UTF-8" ?>
<config version="1.7" xmlns="http://www.ipc.com/ver10">
<types>
<smartType>
<enum>MOTION</enum>
<enum>SENSOR</enum>
<enum>PERIMETER</enum>
<enum>TRIPWIRE</enum>
<enum>PEA</enum>
<enum>AVD</enum>
<enum>OSC</enum>
<enum>CPC</enum>
<enum>CDD</enum>
<enum>IPD</enum>
<enum>VFD</enum>
<enum>VEHICLE</enum>
<enum>AOIENTRY</enum>
<enum>AOILEAVE</enum>
<enum>PASSLINECOUNT</enum>
<enum>TRAFFIC</enum>
</smartType>
<subscribeOption>
<enum>ALARM</enum>
<enum>FEATURE_RESULT</enum>
<enum>FEATURE_RULE</enum>
</subscribeOption>
<smartStatus>
<enum>SMART_NONE</enum>
<enum>SMART_START</enum>
<enum>SMART_STOP</enum>
<enum>SMART_PROCEDURE</enum>
```

```
</smartStatus>
</types>
<smartType type="openAlramObj">PEA</smartType>
<subscribeRelation type="subscribeOption">FEATURE_RESULT</subscribeRelation>
<currentTime type="tint64">1563528106584193</currentTime>
<perimeter>
<perInfo type="list" count="1">
<item>
<eventId type="uint32">220</eventId>
<targetId type="uint32">20</targetId>
<status type="smartStatus">SMART_START</status>
<boundary type="list" count="4">
<item>
<point>
<x type="uint32">1625</x>
<y type="uint32">2133</y>
</point>
</item>
<item>
<point>
<x type="uint32">1725</x>
<y type="uint32">8800</y>
</point>
</item>
<item>
<point>
<x type="uint32">8525</x>
<y type="uint32">8566</y>
</point>
</item>
<item>
<point>
<x type="uint32">8250</x>
<y type="uint32">1866</y>
```

```
</point>
</item>
</boundary>
<rect>
<x1 type="uint32">113</x1>
<y1 type="uint32">0</y1>
<x2 type="uint32">5511</x2>
<y2 type="uint32">8472</y2>
</rect>
</item>
</perInfo>
</perimeter>
<sourceDataInfo>
<relativeTime type="tint64">94298766</relativeTime>
<!-- 0, JPG; 1, YUV -->
<dataType type="uint32">0</dataType>
<width type="uint32">1920</width>
<height type="uint32">1080</height>
<!-- Length of encrypted source data Base64 -->
<sourceBase64Length type="uint32">161438</sourceBase64Length>
<!-- Base64 Encryption of Source Data -->
<sourceBase64Data type="string"><![CDATA[/9j/4AA.....]]></sourceBase64Data>
</sourceDataInfo>
<listInfo type="list" count="1">
<item>
<targetId type="tuint32">20</targetId>
<rect>
<x1 type="uint32">109</x1>
<y1 type="uint32">0</y1>
<x2 type="uint32">5505</x2>
<y2 type="uint32">8472</y2>
</rect>
<targetImageData>
<!-- 0, JPG; 1, YUV -->
```

<dataType type="uint32">0</dataType>

<!-- 1:person;2:car;4:bike-->

<targetType type="uint32">1</targetType>

<Width type="tuint32">1276</Width>

<Height type="tuint32">1080</Height>

<!-- Length of encrypted face data Base64 -->

<targetBase64Length type="uint32">100774</targetBase64Length>

<!-- Base64 Encryption of face Data -->

<targetBase64Data type="string"><![CDATA[/9j/4AA.....]]></targetBase64Data>

</targetImageData>

</item>

</listInfo>

</config>

2.5.4 AVD (Camera Tampering)

SendAlarmData	
Description	To send the alarm data to the subscribe server when an alarm happens. This command will be used by the device. The subscribe server should provide HTTP service to receive this command. Only used when the "subscribeFlag" of "SetSubscribe" set to "BASE_SUBSCRIBE".
Typical URL	POST http://<alarm server>[:port]/SendAlarmData
Channel ID	None
Action name	None
Entity Data	The alarm data should be included in the entity of request message.

<!-- AVD Feature data return -->

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

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

<types>

<smartType>

<enum>MOTION</enum>
<enum>SENSOR</enum>
<enum>PERIMETER</enum>
<enum>TRIPWIRE</enum>
<enum>PEA</enum>
<enum>AVD</enum>
<enum>OSC</enum>
<enum>CPC</enum>
<enum>CDD</enum>
<enum>IPD</enum>
<enum>VFD</enum>
<enum>VEHICLE</enum>
<enum>AOIENTRY</enum>
<enum>AOILEAVE</enum>
<enum>PASSLINECOUNT</enum>
<enum>TRAFFIC</enum>
</smartType>
<subscribeOption>
<enum>ALARM</enum>
<enum>FEATURE_RESULT</enum>
<enum>FEATURE_RULE</enum>
</subscribeOption>
<detectResult>
<enum>SMART_AVD_NONE</enum>
<enum>SMART_AVD_SCENE</enum>
<enum>SMART_AVD_CLARITY</enum>
<enum>SMART_AVD_COLOR</enum>
</detectResult>
</types>
<smartStatus>
<enum>SMART_NONE</enum>
<enum>SMART_START</enum>
<enum>SMART_STOP</enum>
<enum>SMART_PROCEDURE</enum>

```
</smartStatus>
<smartType type="openAlramObj">AVD</smartType>
<subscribeRelation type="subscribeOption">FEATURE_RESULT</subscribeRelation>
<currentTime type="tint64">1563528442892912</currentTime>
<listInfo type="list" count="2">
<item>
<eventId type="uint32">300</eventId>
<status type="smartStatus">SMART_START</status>
<alarmType type="detectResult">SMART_AVD_CLARITY</alarmType>
</item>
<item>
<eventId type="uint32">300</eventId>
<status type="smartStatus">SMART_START</status>
<alarmType type="detectResult">SMART_AVD_COLOR</alarmType>
</item>
</listInfo>
</config>
```

2.5.5 OSC (Object Monitoring)

SendAlarmData	
Description	To send the alarm data to the subscribe server when an alarm happens. This command will be used by the device. The subscribe server should provide HTTP service to receive this command. Only used when the "subscribeFlag" of "SetSubscribe" set to "BASE_SUBSCRIBE".
Typical URL	POST http://<alarm server>[:port]/SendAlarmData
Channel ID	None
Action name	None
Entity Data	The alarm data should be included in the entity of request message.
<!-- OSC Feature data return -->	

2.5.6 CPC (People Counting)

SendAlarmData	
Description	To send the alarm data to the subscribe server when an alarm happens. This command will be used by the device. The subscribe server should provide HTTP service to receive this command. Only used when the "subscribeFlag" of "SetSubscribe" set to "BASE_SUBSCRIBE".
Typical URL	POST http://<alarm server>[:port]/SendAlarmData
Channel ID	None
Action name	None
Entity Data	The alarm data should be included in the entity of request message.
<!-- CPC Feature data return -->	

2.5.7 CDD (Crowd Density)

SendAlarmData	
Description	To send the alarm data to the subscribe server when an alarm happens. This command will be used by the device. The subscribe server should provide HTTP service to receive this command. Only used when the "subscribeFlag" of "SetSubscribe" set to "BASE_SUBSCRIBE".
Typical URL	POST http://<alarm server>[:port]/SendAlarmData
Channel ID	None
Action name	None
Entity Data	The alarm data should be included in the entity of request message.
<!-- CDD Feature data return -->	

2.5.8 IPD (People Intrusion)

SendAlarmData

Description	To send the alarm data to the subscribe server when an alarm happens. This command will be used by the device. The subscribe server should provide HTTP service to receive this command. Only used when the "subscribeFlag" of "SetSubscribe" set to "BASE_SUBSCRIBE".
Typical URL	POST http://<alarm server>[:port]/SendAlarmData
Channel ID	None
Action name	None
Entity Data	The alarm data should be included in the entity of request message.
<!-- IPD Feature data return -->	

2.5.9 VFD (Video Face Detection)

SendAlarmData	
Description	To send the alarm data to the subscribe server when an alarm happens. This command will be used by the device. The subscribe server should provide HTTP service to receive this command. Only used when the "subscribeFlag" of "SetSubscribe" set to "BASE_SUBSCRIBE".
Typical URL	POST http://<alarm server>[:port]/SendAlarmData
Channel ID	None
Action name	None
Entity Data	The alarm data should be included in the entity of request message.

<!-- VFD Feature data return -->

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

<enum>TRIPWIRE</enum>

<enum>PEA</enum>

<enum>AVD</enum>

<enum>OSC</enum>

<enum>CPC</enum>

<enum>CDD</enum>

<enum>IPD</enum>

<enum>VFD</enum>

<enum>VEHICLE</enum>

<enum>AOIENTRY</enum>

<enum>AOILEAVE</enum>

<enum>PASSLINECOUNT</enum>

<enum>TRAFFIC</enum>

</smartType>

<subscribeOption>

<enum>ALARM</enum>

<enum>FEATURE_RESULT</enum>

<enum>FEATURE_RULE</enum>

</subscribeOption>

<tempUnitsType>

<enum>centigrade</enum>

<enum>Fahrenheit</enum>

</tempUnitsType>

</types>

<smartType type="openAlramObj">VFD</smartType>

<subscribeRelation type="subscribeOption">FEATURE_RESULT</subscribeRelation>

<currentTime type="tint64">1563531981645451</currentTime>

<relativeTime type="tint64">270340263</relativeTime>

<sourceDataInfo>

<!-- 0, JPG; 1, YUV -->

<dataType type="uint32">0</dataType>

<width type="uint32">1920</width>

<height type="uint32">1080</height>

<!-- Length of encrypted source data Base64 -->

<sourceBase64Length type="uint32">124622</sourceBase64Length>

<!-- Base64 Encryption of Source Data -->

<sourceBase64Data type="string"><![CDATA[/9j/4AA.....]]></sourceBase64Data>

</sourceDataInfo>

<listInfo type="list" count="1">

<item>

<targetId type="tuint32">2</targetId>

<Width type="tuint32">1920</Width>

<Height type="tuint32">1080</Height>

<leftTop>

<x type="uint32">0</x>

<y type="uint32">0</y>

</leftTop>

<rightTop>

<x type="uint32">0</x>

<y type="uint32">0</y>

</rightTop>

<leftBottom>

<x type="uint32">0</x>

<y type="uint32">0</y>

</leftBottom>

<rightBottom>

<x type="uint32">0</x>

<y type="uint32">0</y>

</rightBottom>

<pose type="tuint32">102</pose>

<confidence type="float">92.00</confidence>

<!-- age sex is reserved -->

<age type="tuint32">0</age>

<sex type="tuint32">0</sex>

<PosFaceImage>

<x type="uint32">1048768</x>

<y type="uint32">0</y>

</PosFaceImage>

```
<feature_score type="float">0.00</feature_score>
<eye_dist type="uint32">102</eye_dist>
<blur type="uint32">0</blur>
<pose_est_score type="uint32">94</pose_est_score>
<illumination type="uint32">0</illumination>
<faceliveness type="uint32">0</faceliveness>
<completeness type="uint32">0</completeness>
<glasses type="uint32">0</glasses>
<wearmask type="uint32">0</wearmask>
<comprehensive_score type="float">92.00</comprehensive_score>
<temperature type="float">36.5</temperature>
<tempUnits type="tempUnitsType">centigrade</tempUnits>
<!-- 0:thermometry, 1: calibrate -->
<temperatureMode type="uint32">0</temperatureMode>
<hotForehead>
        <x type="uint32">1500</x>
        <y type="uint32">1200</y>
</hotForehead>
<hotLeftTop>
        <x type="uint32">1000</x>
        <y type="uint32">1000</y>
</hotLeftTop>
<hotRightBottom>
        <x type="uint32">2000</x>
        <y type="uint32">2000</y>
</hotRightBottom>
<targetImageData>
<dataType type="uint32">0</dataType>
<width type="uint32">468</width>
<height type="uint32">468</height>
<!-- Length of encrypted face data Base64 -->
<targetBase64Length type="uint32">41266</targetBase64Length>
<!-- Base64 Encryption of face Data -->
<targetBase64Data type="string"><![CDATA[/9j/4AA.....]]></targetBase64Data>
```

</targetImageData>

</item>

</listInfo>

</config>

2.5.10 VFD_MATCH (Face Recognition)

SendAlarmData	
Description	To send the alarm data to the subscribe server when an alarm happens. This command will be used by the device. The subscribe server should provide HTTP service to receive this command. Only used when the "subscribeFlag" of "SetSubscribe" set to "BASE_SUBSCRIBE".
Typical URL	POST http://<alarm server>[:port]/SendAlarmData
Channel ID	None
Action name	None
Entity Data	The alarm data should be included in the entity of request message.

<!-- VFD_MATCH Feature data return -->

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

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

<types>

<smartType>

<enum>MOTION</enum>

<enum>SENSOR</enum>

<enum>PERIMETER</enum>

<enum>TRIPWIRE</enum>

<enum>PEA</enum>

<enum>AVD</enum>

<enum>OSC</enum>

<enum>CPC</enum>

<enum>CDD</enum>

<enum>IPD</enum>

<enum>VFD</enum>

<enum>VEHICE</enum>

<enum>AOIENTRY</enum>

<enum>AOILEAVE</enum>

<enum>PASSLINECOUNT</enum>

<enum>TRAFFIC</enum>

</smartType>

<subscribeOption>

<enum>ALARM</enum>

<enum>FEATURE_RESULT</enum>

<enum>FEATURE_RULE</enum>

</subscribeOption>

<faceMatchAlarmList>

<enum>strangerList</enum>

<enum>whiteList</enum>

<enum>blackList</enum>

</faceMatchAlarmList>

<sexType>

<enum>unknown</enum>

<enum>male</enum>

<enum>female</enum>

</sexType>

</types>

<smartType type="openAlramObj">VFD_MATCH</smartType>

<subscribeRelation type="subscribeOption">FEATURE_RESULT</subscribeRelation>

<currentTime type="tint64">1585307773236197</currentTime>

<snapTime type="tint64">1585307772269551</snapTime>

<snapPicId type="tuint32">31</snapPicId>

<matchResult type="boolean">true</matchResult>

<similarity type="tint32">82</similarity>

<livingBody type="tint32">1</livingBody>

<temperature type="float">0.00</temperature>

<albumInfo>

<personId type="tint32">1585278715</personId>

<presonListType type="faceMatchAlarmList">whiteList</presonListType>

<name type="string"><![CDATA[zhoucc]]></name>

<sex type="sexType">female</sex>

<age type="tint32">28</age>

<tel type="string"><![CDATA[]]></tel>

<res type="string"><![CDATA[]]></res>

</albumInfo>

<snapInfo>

<quality type="tint32">-1</quality>

<age type="tint32">-1</age>

<sex type="sexType">unknown</sex>

<reserve type="string"><![CDATA[]]></reserve>

</snapInfo>

<snapData>

<ImageData>

<!-- 0, JPG; 1, YUV -->

<dataType type="uint32">0</dataType>

<width type="uint32">672</width>

<height type="uint32">672</height>

<!-- Length of encrypted source data Base64 -->

<Base64Length type="uint32">96694</Base64Length>

<!-- Base64 Encryption of Data -->

<Base64Data type="string"><![CDATA[/9j/4AA.....]]></Base64Data>

</ImageData>

</snapData>

<albumData>

<ImageData>

<!-- 0, JPG; 1, YUV -->

<dataType type="uint32">0</dataType>

<width type="uint32">592</width>

<height type="uint32">592</height>

<!-- Length of encrypted source data Base64 -->

<Base64Length type="uint32">87338</Base64Length>

<!-- Base64 Encryption of Data -->

<Base64Data type="string"><![CDATA[/9j/4AA.....]]></Base64Data>

</ImageData>

```
</albumData>
<sourceData>
<ImageData>
<!-- 0, JPG; 1, YUV -->
<dataType type="uint32">0</dataType>
<width type="uint32">1080</width>
<height type="uint32">1920</height>
<!-- Length of encrypted source data Base64 -->
<Base64Length type="uint32">161044</Base64Length>
<!-- Base64 Encryption of Data -->
<Base64Data type="string"><![CDATA[/9j/4AA.....]]></Base64Data>
</ImageData>
</sourceData>
</config>
```

2.5.11 VEHICLE

SendAlarmData	
Description	To send the alarm data to the subscribe server when an alarm happens. This command will be used by the device. The subscribe server should provide HTTP service to receive this command. Only used when the "subscribeFlag" of "SetSubscribe" set to "BASE_SUBSCRIBE".
Typical URL	POST http://<alarm server>[:port]/SendAlarmData
Channel ID	None
Action name	None
Entity Data	The alarm data should be included in the entity of request message.

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

<enum>SENSOR</enum>

<enum>PERIMETER</enum>

<enum>TRIPWIRE</enum>

<enum>PEA</enum>

<enum>AVD</enum>

<enum>OSC</enum>

<enum>CPC</enum>

<enum>CDD</enum>

<enum>IPD</enum>

<enum>VFD</enum>

<enum>VEHICLE</enum>

<enum>AOIENTRY</enum>

<enum>AOILEAVE</enum>

<enum>PASSLINECOUNT</enum>

<enum>TRAFFIC</enum>

</smartType>

<subscribeOption>

<enum>ALARM</enum>

<enum>FEATURE_RESULT</enum>

<enum>FEATURE_RULE</enum>

</subscribeOption>

<vehicleDirectType>

<unknown>

<approach>

<away>

</vehicleDirectType>

</types>

<smartType type="openAlramObj">VEHICLE</smartType>

<subscribeRelation type="subscribeOption">FEATURE_RESULT</subscribeRelation>

<currentTime type="tint64">1573465932519</currentTime>

<relativeTime type="tint64">244263670</relativeTime>

<jpegItemCount type="tint32">2</jpegItemCount>

<plateCount type="tint32">1</plateCount>

<softwareVersion type="tint32">4097</softwareVersion>

```
<softwareBuildDate type="tint32">4097</softwareBuildDate>
<listInfo type="list" count="2">
<item>
<!-- image type 0:Original Picture 1:Target snapshot -->
<image type="tuint32">0</image>
<vehicleId type="tuint32">0</vehicleId>
<plateNumber type="string"></plateNumber>
<plateCharCount type="tuint32">0</plateCharCount>
<PlateWidth type="tuint32">0</PlateWidth>
<PlateHeight type="tuint32">0</PlateHeight>
<SourceImageWidth type="tuint32">1920</SourceImageWidth>
<SourceImageHeight type="tuint32">1080</SourceImageHeight>
<leftTop>
<x type="uint32">0</x>
<y type="uint32">0</y>
</leftTop>
<rightTop>
<x type="uint32">0</x>
<y type="uint32">0</y>
</rightTop>
<leftBottom>
<x type="uint32">0</x>
<y type="uint32">0</y>
</leftBottom>
<rightBottom>
<x type="uint32">0</x>
<y type="uint32">0</y>
</rightBottom>
<PlateConfidence type="tuint32">0</PlateConfidence>
<plateColor type="tuint32">0</plateColor>
<plateColorRate type="tuint32">0</plateColorRate>
<plateStyle type="tuint32">0</plateStyle>
<vehicleColor type="tuint32">0</vehicleColor>
<plateAngleH type="tuint32">0</plateAngleH>
```

<plateAngleV type="tuint32">0</plateAngleV>

<targetImageData>

<dataType type="uint32">0</dataType>

<width type="uint32">0</width>

<height type="uint32">0</height>

<!-- Length of encrypted vehicle data Base64 -->

<targetBase64Length type="uint32">177256</targetBase64Length>

<!-- Base64 Encryption of vehicle Data -->

<targetBase64Data type="string"><![CDATA[/9j/pKACikoNMD//Z]]></targetBase64Data>

</targetImageData>

</item>

<item>

<!-- image type 0:Original Picture 1:Target snapshot -->

<image type="tuint32">1</image>

<vehicleId type="tuint32">17</vehicleId>

<plateNumber type="string"><![CDATA[TV1Q8]]</plateNumber>

<plateCharCount type="tuint32">7</plateCharCount>

<vehicleDirect type="vehicleDirectType">approach</vehicleDirect>

<PlateWidth type="tuint32">384</PlateWidth>

<PlateHeight type="tuint32">192</PlateHeight>

<SourceImageWidth type="tuint32">1920</SourceImageWidth>

<SourceImageHeight type="tuint32">1080</SourceImageHeight>

<leftTop>

<x type="uint32">276</x>

<y type="uint32">442</y>

</leftTop>

<rightTop>

<x type="uint32">880</x>

<y type="uint32">442</y>

</rightTop>

<leftBottom>

<x type="uint32">276</x>

<y type="uint32">742</y>

</leftBottom>

```
<rightBottom>
<x type="uint32">880</x>
<y type="uint32">742</y>
</rightBottom>
<PlateConfidence type="tuint32">95</PlateConfidence>
<plateColor type="tuint32">40</plateColor>
<plateColorRate type="tuint32">220</plateColorRate>
<plateStyle type="tuint32">208</plateStyle>
<vehicleColor type="tuint32">52</vehicleColor>
<plateAngleH type="tuint32">0</plateAngleH>
<plateAngleV type="tuint32">0</plateAngleV>
<targetImageData>
<dataType type="uint32">0</dataType>
<width type="uint32">384</width>
<height type="uint32">192</height>
<!-- Length of encrypted vehicle data Base64 -->
<targetBase64Length type="uint32">25816</targetBase64Length>
<!-- Base64 Encryption of vehicle Data -->
<targetBase64Data type="string"><![CDATA[/9j/4A6damjB44/GkybH/2Q==]]></targetBase64Data>
</targetImageData>
</item>
</listInfo>
</config>
```

2.5.12 AOIENTRY (Area Entry)

SendAlarmData	
Description	To send the alarm data to the subscribe server when an alarm happens. This command will be used by the device. The subscribe server should provide HTTP service to receive this command. Only used when the "subscribeFlag" of "SetSubscribe" set to "BASE_SUBSCRIBE".
Typical URL	POST http://<alarm server>[:port]/SendAlarmData
Channel ID	None

Action name	None
Entity Data	The alarm data should be included in the entity of request message.

```
<!--  AOIENTRY Feature data return -->
<?xml version="1.0" encoding="UTF-8" ?>
<config version="1.7" xmlns="http://www.ipc.com/ver10">
<types>
<smartType>
<enum>MOTION</enum>
<enum>SENSOR</enum>
<enum>PERIMETER</enum>
<enum>TRIPWIRE</enum>
<enum>PEA</enum>
<enum>AVD</enum>
<enum>OSC</enum>
<enum>CPC</enum>
<enum>CDD</enum>
<enum>IPD</enum>
<enum>VFD</enum>
<enum>VEHIClE</enum>
<enum>AOIENTRY</enum>
<enum>AOILEAVE</enum>
<enum>PASSLINECOUNT</enum>
<enum>TRAFFIC</enum>
</smartType>
<subscribeOption>
<enum>ALARM</enum>
<enum>FEATURE_RESULT</enum>
<enum>FEATURE_RULE</enum>
</subscribeOption>
<smartStatus>
<enum>SMART_NONE</enum>
<enum>SMART_START</enum>
<enum>SMART_STOP</enum>
```

```
<enum>SMART_PROCEDURE</enum>
</smartStatus>
</types>
<smartType type="openAlramObj">AOIENTRY</smartType>
<subscribeRelation type="subscribeOption">FEATURE_RESULT</subscribeRelation>
<currentTime type="tint64">1563526859957818</currentTime>
<iveAoiEntry>
<aoiInfo type="list" count="1">
<item>
<eventId type="uint32">1540</eventId>
<targetId type="uint32">1140</targetId>
<status type="smartStatus">SMART_START</status>
<boundary type="list" count="4">
<item>
<point>
<x type="uint32">1450</x>
<y type="uint32">2800</y>
</point>
</item>
<item>
<point>
<x type="uint32">1175</x>
<y type="uint32">8400</y>
</point>
</item>
<item>
<point>
<x type="uint32">8375</x>
<y type="uint32">8400</y>
</point>
</item>
<item>
<point>
<x type="uint32">8850</x>
```

```
<y type="uint32">2233</y>
</point>
</item>
</boundary>
<rect>
<x1 type="uint32">312</x1>
<y1 type="uint32">69</y1>
<x2 type="uint32">1619</x2>
<y2 type="uint32">4756</y2>
</rect>
</item>
</aoiInfo>
</iveAoiEntry>
<sourceDataInfo>
<relativeTime type="tint64">5909224320</relativeTime>
<!-- 0, JPG; 1, YUV -->
<dataType type="uint32">0</dataType>
<width type="uint32">1920</width>
<height type="uint32">1080</height>
<!-- Length of encrypted source data Base64 -->
<sourceBase64Length type="uint32">165342</sourceBase64Length>
<!-- Base64 Encryption of Source Data -->
<sourceBase64Data type="string"><![CDATA[/9j/4AA.....]]></sourceBase64Data>
</sourceDataInfo>
<listInfo type="list" count="1">
<item>
<targetId type="tuint32">1140</targetId>
<rect>
<x1 type="uint32">312</x1>
<y1 type="uint32">64</y1>
<x2 type="uint32">1614</x2>
<y2 type="uint32">4750</y2>
</rect>
<targetImageData>
```

<!-- 0, JPG; 1, YUV -->

<dataType type="uint32">0</dataType>

<!-- 1:person;2:car;4:bike-->

<targetType type="uint32">1</targetType>

<Width type="tuint32">344</Width>

<Height type="tuint32">600</Height>

<!-- Length of encrypted face data Base64 -->

<targetBase64Length type="uint32">56364</targetBase64Length>

<!-- Base64 Encryption of face Data -->

<targetBase64Data type="string"><![CDATA[/9j/4AA.....]]></targetBase64Data>

</targetImageData>

</item>

</listInfo>

</config>

2.5.13 AOILEAVE (Area Exit)

SendAlarmData	
Description	To send the alarm data to the subscribe server when an alarm happens. This command will be used by the device. The subscribe server should provide HTTP service to receive this command. Only used when the "subscribeFlag" of "SetSubscribe" set to "BASE_SUBSCRIBE".
Typical URL	POST http://<alarm server>[:port]/SendAlarmData
Channel ID	None
Action name	None
Entity Data	The alarm data should be included in the entity of request message.

<!-- AOILEAVE Feature data return -->

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

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

<types>

<smartType>

<enum>MOTION</enum>

<enum>SENSOR</enum>

<enum>PERIMETER</enum>

<enum>TRIPWIRE</enum>

<enum>PEA</enum>

<enum>AVD</enum>

<enum>OSC</enum>

<enum>CPC</enum>

<enum>CDD</enum>

<enum>IPD</enum>

<enum>VFD</enum>

<enum>VEHICLE</enum>

<enum>AOIENTRY</enum>

<enum>AOILEAVE</enum>

<enum>PASSLINECOUNT</enum>

<enum>TRAFFIC</enum>

</smartType>

<subscribeOption>

<enum>ALARM</enum>

<enum>FEATURE_RESULT</enum>

<enum>FEATURE_RULE</enum>

</subscribeOption>

<smartStatus>

<enum>SMART_NONE</enum>

<enum>SMART_START</enum>

<enum>SMART_STOP</enum>

<enum>SMART_PROCEDURE</enum>

</smartStatus>

</types>

<smartType type="openAlramObj">AOILEAVE</smartType>

<subscribeRelation type="subscribeOption">FEATURE_RESULT</subscribeRelation>

<currentTime type="tint64">1563527344557954</currentTime>

<iveAoiLeave>

<aoiInfo type="list" count="1">

<item>

<eventId type="uint32">528</eventId>

```
<targetId type="uint32">28</targetId>
<status type="smartStatus">SMART_START</status>
<boundary type="list" count="5">
<item>
<point>
<x type="uint32">1275</x>
<y type="uint32">1566</y>
</point>
</item>
<item>
<point>
<x type="uint32">1200</x>
<y type="uint32">7733</y>
</point>
</item>
<item>
<point>
<x type="uint32">6225</x>
<y type="uint32">8133</y>
</point>
</item>
<item>
<point>
<x type="uint32">6375</x>
<y type="uint32">3800</y>
</point>
</item>
<item>
<point>
<x type="uint32">1525</x>
<y type="uint32">1500</y>
</point>
</item>
</boundary>
```

```
<rect>
<x1 type="uint32">6761</x1>
<y1 type="uint32">0</y1>
<x2 type="uint32">9971</x2>
<y2 type="uint32">9479</y2>
</rect>
</item>
</aoiInfo>
</iveAoiLeave>
<sourceDataInfo>
<relativeTime type="tint64">94181866</relativeTime>
<!-- 0, JPG; 1, YUV -->
<dataType type="uint32">0</dataType>
<width type="uint32">1920</width>
<height type="uint32">1080</height>
<!-- Length of encrypted source data Base64 -->
<sourceBase64Length type="uint32">156098</sourceBase64Length>
<!-- Base64 Encryption of Source Data -->
<sourceBase64Data type="string"><![CDATA[/9j/4AA.....]]></sourceBase64Data>
</sourceDataInfo>
<listInfo type="list" count="1">
<item>
<targetId type="tuint32">28</targetId>
<rect>
<x1 type="uint32">6760</x1>
<y1 type="uint32">0</y1>
<x2 type="uint32">9968</x2>
<y2 type="uint32">9472</y2>
</rect>
<targetImageData>
<!-- 0, JPG; 1, YUV -->
<dataType type="uint32">0</dataType>
<!-- 1:person;2:car;4:bike-->
<targetType type="uint32">1</targetType>
```

<Width type="tuint32">820</Width>

<Height type="tuint32">1080</Height>

<!-- Length of encrypted face data Base64 -->

<targetBase64Length type="uint32">68470</targetBase64Length>

<!-- Base64 Encryption of face Data -->

<targetBase64Data type="string"><![CDATA[/9j/4AA.....]]></targetBase64Data>

</targetImageData>

</item>

</listInfo>

</config>

2.5.14 PASSLINECOUNT (Object Counting by Line)

SendAlarmData	
Description	To send the alarm data to the subscribe server when an alarm happens. This command will be used by the device. The subscribe server should provide HTTP service to receive this command. Only used when the "subscribeFlag" of "SetSubscribe" set to "BASE_SUBSCRIBE".
Typical URL	POST http://<alarm server>[:port]/SendAlarmData
Channel ID	None
Action name	None
Entity Data	The alarm data should be included in the entity of request message.

<!-- PASSLINECOUNT Feature data return -->

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

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

<types>

<smartType>

<enum>MOTION</enum>

<enum>SENSOR</enum>

<enum>PERIMETER</enum>

<enum>TRIPWIRE</enum>

<enum>PEA</enum>

<enum>AVD</enum>

<enum>OSC</enum>

<enum>CPC</enum>

<enum>CDD</enum>

<enum>IPD</enum>

<enum>VFD</enum>

<enum>VEHICLE</enum>

<enum>AOIENTRY</enum>

<enum>AOILEAVE</enum>

<enum>PASSLINECOUNT</enum>

<enum>TRAFFIC</enum>

</smartType>

<subscribeOption>

<enum>ALARM</enum>

<enum>FEATURE_RESULT</enum>

<enum>FEATURE_RULE</enum>

</subscribeOption>

<smartStatus>

<enum>SMART_NONE</enum>

<enum>SMART_START</enum>

<enum>SMART_STOP</enum>

<enum>SMART_PROCEDURE</enum>

</smartStatus>

</types>

<smartType type="openAlramObj">PASSLINECOUNT</smartType>

<subscribeRelation type="subscribeOption">FEATURE_RESULT</subscribeRelation>

<currentTime type="tint64">1563529483387162</currentTime>

<passLineCount>

<enterCarCount type="uint32">0</enterCarCount>

<enterPersonCount type="uint32">36</enterPersonCount>

<enterBikeCount type="uint32">0</enterBikeCount>

<leaveCarCount type="uint32">0</leaveCarCount>

<leavePersonCount type="uint32">0</leavePersonCount>

<leaveBikeCount type="uint32">0</leaveBikeCount>

<existCarCount type="uint32">0</existCarCount>

```
<existPersonCount type="uint32">0</existPersonCount>
<existBikeCount type="uint32">0</existBikeCount>
<aoiInfo type="list" count="1">
<item>
<eventId type="uint32">736</eventId>
<targetId type="uint32">136</targetId>
<status type="smartStatus">SMART_START</status>
<line>
<x1 type="uint32">4950</x1>
<y1 type="uint32">1966</y1>
<x2 type="uint32">4400</x2>
<y2 type="uint32">8200</y2>
<!-- 1, ANY_DIRECTION; 2, LEFT_TO_RIGHT 3,RIGHT_TO_LEFT -->
<Direct type="uint32">3</Direct>
</line>
<rect>
<x1 type="uint32">2130</x1>
<y1 type="uint32">0</y1>
<x2 type="uint32">7869</x2>
<y2 type="uint32">8020</y2>
</rect>
</item>
</aoiInfo>
</passLineCount>
<sourceDataInfo>
<relativeTime type="tint64">1471077850</relativeTime>
<!-- 0, JPG; 1, YUV -->
<dataType type="uint32">0</dataType>
<width type="uint32">1920</width>
<height type="uint32">1080</height>
<!-- Length of encrypted source data Base64 -->
<sourceBase64Length type="uint32">124442</sourceBase64Length>
<!-- Base64 Encryption of Source Data -->
<sourceBase64Data type="string"><![CDATA[/9j/4AA.....]]></sourceBase64Data>
```

```
</sourceDataInfo>
<listInfo type="list" count="1">
<item>
<targetId type="tuint32">136</targetId>
<rect>
<x1 type="uint32">2130</x1>
<y1 type="uint32">0</y1>
<x2 type="uint32">7864</x2>
<y2 type="uint32">8018</y2>
</rect>
<targetImageData>
<!-- 0, JPG; 1, YUV -->
<dataType type="uint32">0</dataType>
<!-- 1:person;2:car;4:bike-->
<targetType type="uint32">1</targetType>
<Width type="tuint32">1344</Width>
<Height type="tuint32">1080</Height>
<!-- Length of encrypted face data Base64 -->
<targetBase64Length type="uint32">80026</targetBase64Length>
<!-- Base64 Encryption of face Data -->
<targetBase64Data type="string"><![CDATA[/9j/4AA.....]]></targetBase64Data>
</targetImageData>
</item>
</listInfo>
</config>
```

2.5.15 TRAFFIC (Object Counting by Area)

SendAlarmData	
Description	To send the alarm data to the subscribe server when an alarm happens. This command will be used by the device. The subscribe server should provide HTTP service to receive this command. Only used when the "subscribeFlag" of "SetSubscribe" set to "BASE_SUBSCRIBE".
Typical URL	POST http://<alarm server>[:port]/SendAlarmData

Channel ID	None
Action name	None
Entity Data	The alarm data should be included in the entity of request message.

<!-- TRAFFIC Feature data return -->

2.5.16VSD (Video Metadata)

SendAlarmData	
Description	To send the alarm data to the subscribe server when an alarm happens. This command will be used by the device. The subscribe server should provide HTTP service to receive this command. Only used when the "subscribeFlag" of "SetSubscribe" set to "BASE_SUBSCRIBE".
Typical URL	POST http://<alarm server>[:port]/SendAlarmData
Channel ID	None
Action name	None
Entity Data	The alarm data should be included in the entity of request message.

<!-- VSD Feature data return -->

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

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

<types>

<openAlramObj>

<enum>MOTION</enum>

<enum>SENSOR</enum>

<enum>PEA</enum>

<enum>AVD</enum>

<enum>OSC</enum>

<enum>CPC</enum>

<enum>CDD</enum>

<enum>IPD</enum>

<enum>VFD</enum>

<enum>VFD_MATCH</enum>

<enum>VEHICE</enum>

<enum>AOIENTRY</enum>

<enum>AOILEAVE</enum>

<enum>PASSLINECOUNT</enum>

<enum>TRAFFIC</enum>

<enum>FALLING</enum>

<enum>EA</enum>

<enum>VSD</enum>

</openAlramObj>

<subscribeRelation>

<enum>ALARM</enum>

<enum>FEATURE_RESULT</enum>

<enum>ALARM_FEATURE</enum>

</subscribeRelation>

<perStatus>

<enum>SMART_NONE</enum>

<enum>SMART_START</enum>

<enum>SMART_STOP</enum>

<enum>SMART_PROCEDURE</enum>

</perStatus>

<targetType>

<enum>person</enum>

<enum>car</enum>

<enum>motor</enum>

</targetType>

</types>

<smartType type="openAlramObj">VSD</smartType>

<subscribeOption type="subscribeRelation">FEATURE_RESULT</subscribeOption>

<currentTime type="tint64">1659750699527486</currentTime>

<mac type="string">

<![CDATA[84:11:c2:c9:b8:35]]>

</mac>

<sn type="string">

```
<![CDATA[IB8350774A4T]]>
</sn>
<deviceName type="string">
<![CDATA[IPC]]>
</deviceName>
<vsd>
<vsdInfo type="list" count="1">
<item>
<eventId type="uint32">1023</eventId>
<targetId type="uint32">23</targetId>
<boundary type="list" count="4">
<item>
<point>
<x type="uint32">41</x>
<y type="uint32">83</y>
</point>
</item>
<item>
<point>
<x type="uint32">9888</x>
<y type="uint32">83</y>
</point>
</item>
<item>
<point>
<x type="uint32">9888</x>
<y type="uint32">9888</y>
</point>
</item>
<item>
<point>
<x type="uint32">41</x>
<y type="uint32">9888</y>
</point>
```

```
</item>
</boundary>
<rect>
<x1 type="uint32">3125</x1>
<y1 type="uint32">4583</y1>
<x2 type="uint32">6846</x2>
<y2 type="uint32">9652</y2>
</rect>
</item>
</vsdInfo>
<sourceDataInfo>
<dataType type="uint32">0</dataType>
<width type="uint32">1280</width>
<height type="uint32">720</height>
<sourceBase64Length type="uint32">492934</sourceBase64Length>
<sourceBase64Data type="string">
<![CDATA[base64Data]]>
</sourceBase64Data>
</sourceDataInfo>
<targetImageData>
<dataType type="uint32">0</dataType>
<targetType type="targetType">person</targetType>
<width type="uint32">476</width>
<height type="uint32">368</height>
<personAttr type="vsdPersonAttrType">
<!-- age Unknown infant(<7) young(7-18) youth(18-40) middle aged(41-60) elderly(>60) -->
<age type="vsdPersonAttrAgeType">youth(18-40)</age>
<!-- backpack Unknown/backpack/no backpack -->
<backpack type="vsdPersonAttrBackPackType">no backpack</backpack>
<!-- glasses Unknown/glasses/no glasses-->
<glasses type="vsdPersonAttrGlassesType">glasses</glasses>
<!-- hat Unknown/hat/no hat -->
<hat type="vsdPersonAttrHatType">no hat</hat>
<!-- lowercolor Unknown/red/orange/yellow/green/blue/cyan/purple/black/white/silver/grey/golden/brown
-->
```

<lowercolor type="vsdPersonAttrLowerColorType">orange</lowercolor>

<!-- lowerlength Unknown/shorts/trousers -->

<lowerlength type="vsdPersonAttrLowerLengthType">short sleeve</lowerlength>

<!-- mask Unknown/mask/no mask -->

<mask type="vsdPersonAttrMaskType">mask</mask>

<!-- orient Unknown/face/back/side -->

<orient type="vsdPersonAttrOrientType">back</orient>

<!-- Unknown/male/female -->

<sex type="vsdPersonAttrSexType">male</sex>

<!-- Unknown/backpack/no backpack -->

<shoulderbag type="vsdPersonAttrShoulderBagType">no shoulderbag</shoulderbag>

<!-- Unknown/skirt/no skirt -->

<skirt type="vsdPersonAttrSkirtType">skirt</skirt>

<!-- uppercolor Unknown/red/orange/yellow/green/blue/cyan/purple/black/white/silver/grey/golden/brown -->

<uppercolor type="vsdPersonAttrUpperColorType">black</uppercolor>

<!-- Unknown/short sleeve/long sleeve -->

<upperlength type="vsdPersonAttrUpperLengthType">long sleeve</upperlength>

</personAttr>

<carAttr type="vsdCarAttrType">

<year type="vsdCarAttrYearType">2017</year>

<!-- Unknown/saloon car/suv/mpv/sports car/van/coach/school bus/bus/minibus/pick up truck/truck/special car -->

<type type="vsdCarAttrTypeType">saloon car</type>

<!-- color Unknown/red/orange/yellow/green/blue/cyan/purple/black/white/silver/grey/golden/brown -->

<color type="vsdCarAttrColorType">grey</color>

<brand type="vsdCarAttrBrandType">Volkswagen</brand>

<model type="vsdCarAttrModelType">Volkswagen_Lavida</model>

</carAttr>

<!-- Unknown/bike/electro mobile/motor/tricycle -->

<bikeAttr type="vsdBikeAttrType">electro mobile</bikeAttr>

<targetBase64Length type="uint32">70892</targetBase64Length>

<targetBase64Data type="string">

<![CDATA[base64Data]]>

</targetBase64Data>

```
</targetImageData>
</vsd>
</config>
```

Person Attr **name**	**value**
sex	Unknown,male,female
age	Unknown,infant(<7),young(7-18),youth(18-40),middle aged(41-60),elderly(>60)
orient	Unknown,face,back,side
hat	Unknown,hat,no hat
glasses	Unknown,glasses,no glasses
backpack	Unknown,backpack,no backpack
skirt	Unknown,short sleeve,long sleeve
uppercolor	Unknown,red,orange,yellow,green,blue,cyan,purple,black,white,silver,grey,golden,brown
upperlength	Unknown,shorts,trousers
lowercolor	Unknown,red,orange,yellow,green,blue,cyan,purple,black,white,silver,grey,golden,brown
lowerlength	Unknown,skirt,no skirt
mask	Unknown,mask,no mask
shoulderbag	Unknown,shoulderbag,no shoulderbag

Bike attr **name**	**value**
type	Unknown,bike,electro mobile,motor,tricycle

Car attr name	**value**

color	Unknown,red,orange,yellow,green,blue,cyan,purple,black,white,silver,grey,golden,brown
year	Unknown, 2008，2009，2010，2011，2012，2013，2014，2015，2016，2017，2018，2019，2020，2021
type	Unknown, saloon car，suv，mpv，sports car，van，coach，school bus，bus，minibus，pick up truck，truck，special car
brand	Unknown,AEOLUS,AIWAYS,Acura,AlfaRomeo,AstonMartin,Audi,BAIC,BESTUNE,BISU,BMW,BRABUS,BYD,BaoJun,BeiJing,Bentley,Benz,Borgward,Bugatti,Buick,CHANGAN,COWIN,Cadillac,Chery,Chevrolet,Chrysler,Citroen,DENZA,DFM,DFSK,DS,Dacia,Dodge,EVERUS,Exeed,FAW,FIAT,FOTON,Fengon,Fengxing,Ferrari,Foday,Ford,GMC,Geely,Genesis,Geometry,GreatWall,HANTENG,HAWTAI,HUASONG,Haima,Haval,Honda,HongQi,Hyundai,INFINITI,Isuzu,JAC,JINBEI,Jaguar,Jeep,Jetour,Jetta,Karry,Keyton,Kia,Knowbeans,LANCIA,LIFAN,LITE,Lamborghini,LandRover,Landwind,Leopaard,Lexus,Lincoln,LingPao,Link,Lotus,Luxgen,MAXUS,MG,MINI,Maserati,Mazda,McLaren,Mitsubishi,NETA,NIO,NewBaojun,Nissan,ORA,Oley,Opel,Pagani,Peugeot,Porsche,QOROS,ROEWE,Renault,Riich,RollsRoyce,SGMW,SKODA,SUZUKI,SWM,Seat,Smart,Soueas,SsangYong,Subaru,TOYOTA,TRAUM,Tesla,Trumpchi,Venucia,Volkswagen,Volvo,WEICHAI,WEY,WM,XiaoPeng,Yemaauto,YuSheng,YunDu,ZHONGXING,Zhonghua,Zotye
model	Table model

Table model
Unknown
AEOLUS_A30
AEOLUS_A60
AEOLUS_AX3
AEOLUS_AX4
AEOLUS_AX5
AEOLUS_AX7
AEOLUS_E70
AEOLUS_H30
AEOLUS_L60
AEOLUS_S30

AEOLUS_YiXun
AIWAYS_U5
Acura_CDX
Acura_ILX
Acura_MDX
Acura_NSX
Acura_RDX
Acura_RL
Acura_TL
Acura_TLX
AlfaRomeo_ALFA4C
AlfaRomeo_Giulia
AlfaRomeo_Stelvio
AstonMartin_DB11
AstonMartin_DB9
AstonMartin_DBS
AstonMartin_DBX
AstonMartin_Rapide
AstonMartin_V12
AstonMartin_V8Vantage
AstonMartin_Vanquish
AstonMartin_Virage
Audi_A1

Audi_A3
Audi_A4
Audi_A4L
Audi_A5
Audi_A6
Audi_A6L
Audi_A7
Audi_A8
Audi_A8L
Audi_Q2
Audi_Q2L
Audi_Q3
Audi_Q5
Audi_Q5L
Audi_Q7
Audi_Q8
Audi_R8
Audi_RS3
Audi_RS4
Audi_RS5
Audi_RS6
Audi_RS7
Audi_RSQ3
Audi_S1

Audi_S3
Audi_S4
Audi_S5
Audi_S6
Audi_S7
Audi_S8
Audi_SQ5
Audi_TT
Audi_TTRS
Audi_TTS
Audi_etron
BAIC_BJ212
BAIC_BeiDouXing
BAIC_ChanHeMSeries
BAIC_EC
BAIC_EU
BAIC_EV
BAIC_EX
BAIC_HuanSUS3
BAIC_HuanSUS6
BAIC_HuanSUS7
BAIC_HuanSuHSeries
BAIC_HuanSuS2

BAIC_HuanSuS5
BAIC_QSeries
BAIC_WeiWang3series
BAIC_WeiWangM20
BAIC_WeiWangMSeries
BAIC_YongShi
BAIC_ZhanQi
BESTUNE_B70
BESTUNE_B90
BESTUNE_T33
BESTUNE_T77
BESTUNE_T99
BESTUNE_X40
BESTUNE_X80
BISU_M3
BISU_T3
BISU_T5
BMW_1Series
BMW_2Series
BMW_3Series
BMW_4Series
BMW_5Series
BMW_6Series

BMW_6seriesGT
BMW_7Series
BMW_8Series
BMW_M2
BMW_M3
BMW_M4
BMW_M5
BMW_M6
BMW_M8
BMW_X1
BMW_X2
BMW_X3
BMW_X3M
BMW_X4
BMW_X4M
BMW_X5
BMW_X5M
BMW_X6
BMW_X6M
BMW_X7
BMW_Z4
BMW_i3
BMW_i8
BRABUS_Sseries

BRABUS_smartfortwo
BYD_Eseries
BYD_F0
BYD_F3
BYD_F6
BYD_G3
BYD_G5
BYD_G6
BYD_Han
BYD_L3
BYD_M6
BYD_Qin
BYD_QinPRO
BYD_S6
BYD_S7
BYD_SiRui
BYD_Song
BYD_SongMAX
BYD_SongPRO
BYD_SuRui
BYD_Tang
BYD_Yuan
BaoJun_310
BaoJun_360

BaoJun_510
BaoJun_530
BaoJun_560
BaoJun_610
BaoJun_630
BaoJun_730
BaoJun_E100
BaoJun_E200
BaoJun_LeChi
BeiJing_BJ20
BeiJing_BJ40
BeiJing_BT80
BeiJing_ESeries
BeiJing_EUSeries
BeiJing_EXSeries
BeiJing_KunBaoD20
BeiJing_KunBaoD50
BeiJing_KunBaoD79
BeiJing_KunBaoX25
BeiJing_KunBaoX35
BeiJing_KunBaoX55
BeiJing_KunBaoX65
BeiJing_USeries
BeiJing_XSeries

BeiJing_ZhiXing
Bentley_Bentayg
Bentley_Continental
Bentley_FlyingSpur
Bentley_Mulsanne
Benz_A
Benz_AAMG
Benz_AMGGT
Benz_B
Benz_B30
Benz_B50
Benz_C
Benz_CAMG
Benz_CLA
Benz_CLAAMG
Benz_CLS
Benz_CLSAMG
Benz_E
Benz_EAMG
Benz_EQC
Benz_G
Benz_GAMG
Benz_GL
Benz_GLA

Benz_GLAAMG
Benz_GLB
Benz_GLC
Benz_GLCAMG
Benz_GLE
Benz_GLEAMG
Benz_GLK
Benz_GLS
Benz_M
Benz_Maybach
Benz_R
Benz_S
Benz_SAMG
Benz_SL
Benz_SLAMG
Benz_SLC
Benz_SLK
Benz_SLSAMG
Benz_V
Benz_Viano
Benz_Vito
Borgward_BX3
Borgward_BX5
Borgward_BX7

Bugatti_Chiron
Buick_CTS
Buick_Enclave
Buick_Encore
Buick_Envision
Buick_Excelle
Buick_ExcelleGT
Buick_ExcelleGX
Buick_GL6
Buick_GL8
Buick_Larcosse
Buick_Regal
Buick_Velite
Buick_Verano
Buick_angkeqi
CHANGAN_A600
CHANGAN_A800
CHANGAN_Benben
CHANGAN_COS1
CHANGAN_CS15
CHANGAN_CS35
CHANGAN_CS55
CHANGAN_CS75
CHANGAN_CS85

CHANGAN_CS95
CHANGAN_CX20
CHANGAN_CX30
CHANGAN_CX70
CHANGAN_Cosmos
CHANGAN_Eado
CHANGAN_Eulove
CHANGAN_Honor
CHANGAN_KeShang
CHANGAN_LINMAX
CHANGAN_Raeton
CHANGAN_RuiChen g
CHANGAN_RuiXing
CHANGAN_UNIT
CHANGAN_X7
CHANGAN_YueXiang
CHANGAN_ZhiXing
COWIN_C3
COWIN_Showjet
COWIN_X3
COWIN_X5
Cadillac_ATS
Cadillac_CT4

Cadillac_CT5
Cadillac_CT6
Cadillac_Escalade
Cadillac_SLS
Cadillac_SRX
Cadillac_XT4
Cadillac_XT5
Cadillac_XT6
Cadillac_XTS
Chery_ASeries
Chery_Arrizo
Chery_Arrizo5
Chery_Arrizo7
Chery_BannerCloud
Chery_ESeries
Chery_Fulwin
Chery_QQ
Chery_Tiggo
Chery_Tiggo3
Chery_Tiggo5
Chery_Tiggo7
Chery_Tiggo8
Chery_eQ
Chevrolet_Aveo

Chevrolet_Blazer
Chevrolet_Camero
Chevrolet_Captiva
Chevrolet_Cavalier
Chevrolet_Corvette
Chevrolet_Cruze
Chevrolet_Epica
Chevrolet_Equinox
Chevrolet_Lova
Chevrolet_Malibu
Chevrolet_MalibuXL
Chevrolet_Menlo
Chevrolet_Monza
Chevrolet_Orlando
Chevrolet_Sail
Chevrolet_Sonic
Chevrolet_Spark
Chevrolet_Tracker
Chevrolet_Trailblazer
Chrysler_300
Chrysler_GrandVoyager
Citroen_AIRCROSS
Citroen_C3

Citroen_C4
Citroen_C5
Citroen_C6
Citroen_CElysee
Citroen_Cactus
Citroen_Quatre
DENZA_DENZA
DENZA_X
DFM_Succe
DFSK_CSERIES
DFSK_KSeries
DS_3
DS_4
DS_5
DS_6
DS_7
Dacia_Duster
Dacia_Logan
Dodge_Challenger
Dodge_Journey
EVERUS_ONE
EVERUS_S1
EVERUS_VE1
Exeed_LX

Exeed_TX
FAW_JiaBao
FAW_JunPei
FAW_SenYa
FAW_WeiZhi
FAW_XiaLi
FIAT_124
FIAT_500
FIAT_Bravo
FIAT_Ottimo
FIAT_Viaggio
FOTON_JiaTu
FOTON_MIDI
Fengon_330
Fengon_370
Fengon_580
Fengon_IX5
Fengon_IX7
Fengon_MX6
Fengon_S560
Fengxing_CM7
Fengxing_F600
Fengxing_JIngYiS50
Fengxing_JingYi

Fengxing_JingYiX3
Fengxing_JingYiX5
Fengxing_JingYiX6
Fengxing_LingZhi
Fengxing_S500
Fengxing_SX6
Fengxing_T5
Ferrari_458
Ferrari_488
Ferrari_California
Ferrari_F8
Ferrari_FF
Ferrari_GTC4Lusso
Ferrari_Portofino
Foday_Landfort
Ford_Ecosport
Ford_Edge
Ford_Escape
Ford_Escort
Ford_Everest
Ford_Explorer
Ford_Fiesta
Ford_Focus
Ford_Fusion

Ford_GT
Ford_Maverick
Ford_Mondeo
Ford_Mustang
Ford_Taurus
Ford_Territory
Ford_Tourneo
Ford_ZhiSheng
Ford_ka
GMC_SAVANA
GMC_TERRAIN
GMC_YUKON
Geely_BoRui
Geely_BoYue
Geely_EC8
Geely_Emgrand
Geely_EmgrandGL
Geely_EmgrandGS
Geely_FenRui
Geely_FenYue
Geely_GX2
Geely_GX7
Geely_HaiJing
Geely_HaoYue

Geely_ICON
Geely_JiaJi
Geely_JingGang
Geely_Panda
Geely_SC5
Geely_Vision
Geely_VisionS1
Geely_VisionX3
Geely_VisionX6
Geely_XingYue
Geely_ZiYouJian
Genesis_Genesis
Genesis_Gseries
Geometry_A
GreatWall_C30
GreatWall_C50
GreatWall_Florid
GreatWall_M2
GreatWall_M4
GreatWall_V80
HANTENG_X5
HANTENG_X7
HAWTAI_Boliger
HAWTAI_LuSheng

HAWTAI_SantaFe
HUASONG_7
Haima_8S
Haima_AiShang
Haima_Cupid
Haima_Family
Haima_Freema
Haima_M3
Haima_M6
Haima_M8
Haima_QiShi
Haima_S5
Haima_S7
Haval_F5
Haval_F7
Haval_H1
Haval_H2
Haval_H3
Haval_H4
Haval_H5
Haval_H6
Haval_H7
Haval_H8
Haval_H9

Haval_M6
Honda_Accoro
Honda_Avancier
Honda_Breeze
Honda_CRV
Honda_City
Honda_Civio
Honda_Crider
Honda_Crosstour
Honda_Elysion
Honda_Envix
Honda_Fit
Honda_Gienia
Honda_INSIGHT
Honda_INSPIRE
Honda_Jade
Honda_Odyssey
Honda_Pilot
Honda_Spirior
Honda_URV
Honda_Vezel
Honda_XRV
HongQi_H5
HongQi_H7

HongQi_HS5
HongQi_HS7
Hyundai_Accent
Hyundai_Azera
Hyundai_Celesta
Hyundai_Elantra
Hyundai_Encino
Hyundai_Equus
Hyundai_GrandSantaFe
Hyundai_KONA
Hyundai_Lafesta
Hyundai_LangDong
Hyundai_LingDong
Hyundai_Mistra
Hyundai_Rohens
Hyundai_RuiYi
Hyundai_Santa
Hyundai_Sonata
Hyundai_Tucson
Hyundai_Veloster
Hyundai_Verna
Hyundai_YueNa
Hyundai_i10

Hyundai_i20
Hyundai_i30
Hyundai_ix25
Hyundai_ix35
INFINITI_ESQ
INFINITI_M
INFINITI_Q50
INFINITI_Q60
INFINITI_Q70
INFINITI_QX30
INFINITI_QX50
INFINITI_QX60
INFINITI_QX70
INFINITI_QX80
Isuzu_muX
JAC_BingYue
JAC_HeYue
JAC_IEV
JAC_JiaYue
JAC_REFINE
JAC_REFINEM2
JAC_REFINEM3
JAC_REFINEM4
JAC_REFINEM5

JAC_REFINER3
JAC_REFINES2
JAC_REFINES3
JAC_REFINES4
JAC_REFINES5
JAC_REFINES7
JAC_RuiYing
JAC_YueYue
JINBEI_750
JINBEI_F50
JINBEI_S70
JINBEI_ZhiShang
Jaguar_EPACE
Jaguar_FPACE
Jaguar_FTYPE
Jaguar_IPACE
Jaguar_XE
Jaguar_XF
Jaguar_XJ
Jaguar_XK
Jeep_Cherokee
Jeep_Commander
Jeep_Compass
Jeep_GrandCherokee

Jeep_GrandCommander
Jeep_Patriot
Jeep_Renegade
Jeep_WranglerRubicon
Jetour_X70
Jetour_X90
Jetour_X95
Jetta_VA3
Jetta_VS5
Jetta_VS7
Karry_K50
Karry_K60
Karry_YouYou
Keyton_EX80
Keyton_M70
Keyton_V60
Kia_CEED
Kia_Cadenza
Kia_Carens
Kia_Forte
Kia_HuanChi
Kia_K2
Kia_K3

Kia_K4
Kia_K5
Kia_K9
Kia_K900
Kia_KX1
Kia_KX3
Kia_KX5
Kia_KX7
Kia_KXCROSS
Kia_KaiShen
Kia_Niro
Kia_Shuma
Kia_Sorento
Kia_Soul
Kia_Sportage
Kia_SportageR
Kia_Stinger
Knowbeans_D2
LANCIA_Ypsilon
LIFAN_320
LIFAN_620
LIFAN_MaiWei
LIFAN_X60
LIFAN_XuanLang

LITE_lite
Lamborghini_Aventador
Lamborghini_Gallardo
Lamborghini_Huracan
Lamborghini_Urus
LandRover_Defender
LandRover_Discovery
LandRover_Freelander
LandRover_RangeRover
Landwind_RongYao
Landwind_X2
Landwind_X5
Landwind_X7
Landwind_X8
Landwind_XiaoYao
Leopaard_CS10
Leopaard_CS9
Lexus_CT
Lexus_ES
Lexus_GS
Lexus_IS
Lexus_LC

Lexus_LS
Lexus_LX
Lexus_NX
Lexus_RC
Lexus_RX
Lexus_UX
Lincoln_Aviator
Lincoln_Continental
Lincoln_Cursus
Lincoln_MKC
Lincoln_MKX
Lincoln_MKZ
Lincoln_Nautilus
Lincoln_Navigator
LingPao_S01
LingPao_T03
Link_01
Link_02
Link_03
Link_05
Lotus_Evora
Lotus_L3
Lotus_L5
Luxgen_3

Luxgen_5
Luxgen_Da7
Luxgen_U5
Luxgen_U6
MAXUS_D60
MAXUS_D90
MAXUS_EUNIQ
MAXUS_G10
MAXUS_G20
MAXUS_G50
MG_3
MG_5
MG_6
MG_GS
MG_GT
MG_HS
MG_ZS
MINI_CABRIO
MINI_CLUBMAN
MINI_COUNTRYMAN
MINI_JCW
MINI_JCWCLUBMAN
MINI_JCWCOUNTRYMAN

MINI_JCWPACEMAN
MINI_PACEMAN
MINI_mini
Maserati_Ghibli
Maserati_GranCabrio
Maserati_GranTurismo
Maserati_Levante
Maserati_Quattroporte
Mazda_2
Mazda_3
Mazda_5
Mazda_6
Mazda_8
Mazda_Atenza
Mazda_CX3
Mazda_CX30
Mazda_CX4
Mazda_CX5
Mazda_CX7
Mazda_CX8
Mazda_CX9
Mazda_MX5
Mazda_Mazda3Axela

Mazda_Mazda6RuiYi
McLaren_570
McLaren_600LT
McLaren_650S
McLaren_675LT
McLaren_720S
McLaren_GT
McLaren_MP412C
Mitsubishi_EclipseCross
Mitsubishi_Fortis
Mitsubishi_JinXun
Mitsubishi_LancerEX
Mitsubishi_Outlander
Mitsubishi_Pajero
NETA_N01
NETA_U
NIO_ES6
NIO_ES8
NewBaojun_E300
NewBaojun_RC5
NewBaojun_RC6
NewBaojun_RM5
NewBaojun_RS3

NewBaojun_RS5
Nissan_370Z
Nissan_Altima
Nissan_Bluebird
Nissan_Cima
Nissan_GTR
Nissan_Geniss
Nissan_Klcks
Nissan_Leaf
Nissan_Livina
Nissan_March
Nissan_Murano
Nissan_NV200
Nissan_Pathfinder
Nissan_Patrol
Nissan_Qashqai
Nissan_Sunny
Nissan_Teana
Nissan_Tiida
Nissan_TuDa
Nissan_XTrail
ORA_BaiMao
ORA_HeiMao
ORA_iQ

Oley_Oley
Opel_Antara
Opel_Astra
Opel_Corsa
Opel_Zafira
Pagani_Huayra
Peugeot_2008
Peugeot_207
Peugeot_208
Peugeot_3008
Peugeot_301
Peugeot_307
Peugeot_308
Peugeot_4008
Peugeot_408
Peugeot_5008
Peugeot_508
Peugeot_RCZ
Porsche_718
Porsche_911
Porsche_918
Porsche_Boxster
Porsche_Cayenne
Porsche_Cayman

Porsche_Macan
Porsche_Panamera
Porsche_Taycan
QOROS_3
QOROS_5
ROEWE_350
ROEWE_360
ROEWE_550
ROEWE_750
ROEWE_950
ROEWE_Ei5
ROEWE_MARVEL
ROEWE_RX3
ROEWE_RX5
ROEWE_RX8
ROEWE_W5
ROEWE_i5
ROEWE_i6
Renault_Captur
Renault_Clio
Renault_Espace
Renault_Fluence
Renault_KZE
Renault_Kadjar

Renault_Koleos
Renault_Megane
Renault_Scenic
Renault_Talisman
Renault_Twingo
Riich_G5
Riich_M1
RollsRoyce_Cullinan
RollsRoyce_Dawn
RollsRoyce_Ghost
RollsRoyce_Phantom
RollsRoyce_Wraith
SGMW_HongGuang
SGMW_RongGuang
SGMW_ZhiGuang
SKODA_Citigo
SKODA_Fabia
SKODA_Kamiq
SKODA_Karoq
SKODA_Kodiaq
SKODA_Octavia
SKODA_Rapid
SKODA_RapidSpaceback

SKODA_SuPai
SKODA_Superb
SKODA_Yeti
SUZUKI_Auto
SUZUKI_Kizashi
SUZUKI_Liana
SUZUKI_QiYue
SUZUKI_Scross
SUZUKI_Swift
SUZUKI_SwiftSport
SUZUKI_TYSX4
SUZUKI_TYSY
SUZUKI_Vitara
SUZUKI_Wagon
SUZUKI_jimny
SWM_G01
SWM_X3
SWM_X7
Seat_Ibiza
Seat_LEON
Smart_Forfour
Smart_Fortwo
Soueas_A5
Soueas_DX3

Soueas_DX5
Soueas_DX7
Soueas_V3
Soueas_V5
Soueas_V6
SsangYong_Actyon
SsangYong_Korando
SsangYong_Rexton
SsangYong_Rodius
SsangYong_Tivolan
Subaru_BRZ
Subaru_Forester
Subaru_Impreza
Subaru_Legacy
Subaru_Outback
Subaru_WRX
Subaru_XV
TOYOTA_4Runner
TOYOTA_86
TOYOTA_Alpha
TOYOTA_Avalon
TOYOTA_Avensis
TOYOTA_Aygo
TOYOTA_CHR

TOYOTA_Camry
TOYOTA_Corolla
TOYOTA_CorollaEx
TOYOTA_Crown
TOYOTA_EZ
TOYOTA_Highlander
TOYOTA_Izoa
TOYOTA_Landcruiser
TOYOTA_Levin
TOYOTA_Prado
TOYOTA_Prius
TOYOTA_RAV4
TOYOTA_Reiz
TOYOTA_Sequoia
TOYOTA_Supra
TOYOTA_Vellfire
TOYOTA_Venza
TOYOTA_Vios
TOYOTA_Wildlander
TOYOTA_YARiS
TRAUM_MEET3
TRAUM_S70
Tesla_Model3
Tesla_ModelS

Tesla_ModelX
Tesla_Roadster
Trumpchi_Aion
Trumpchi_GA3
Trumpchi_GA4
Trumpchi_GA5
Trumpchi_GA6
Trumpchi_GA8
Trumpchi_GE3
Trumpchi_GM6
Trumpchi_GM8
Trumpchi_GS3
Trumpchi_GS4
Trumpchi_GS5
Trumpchi_GS7
Trumpchi_GS8
Trumpchi_XingLang
Venucia_D50
Venucia_D60
Venucia_M50
Venucia_R50
Venucia_T60
Venucia_T70
Venucia_T90

Venucia_XING
Volkswagen_Atlas
Volkswagen_Bettle
Volkswagen_Bora
Volkswagen_CC
Volkswagen_CTRAK
Volkswagen_Caravelle
Volkswagen_CrossLavida
Volkswagen_EOS
Volkswagen_Fox
Volkswagen_Golf
Volkswagen_Jetta
Volkswagen_Lamando
Volkswagen_Lavida
Volkswagen_Magotan
Volkswagen_Multivan
Volkswagen_POLO
Volkswagen_Passat
Volkswagen_Phaeton
Volkswagen_Phideon
Volkswagen_Sagitar
Volkswagen_Santana

Volkswagen_Scirocco
Volkswagen_Sharan
Volkswagen_TCross
Volkswagen_TROC
Volkswagen_Tacqua
Volkswagen_Tayron
Volkswagen_Teramont
Volkswagen_Tharu
Volkswagen_Tiguan
Volkswagen_Touareg
Volkswagen_Touran
Volkswagen_UP
Volkswagen_Variant
Volkswagen_Viloran
Volvo_C30
Volvo_S40
Volvo_S60
Volvo_S80
Volvo_S90
Volvo_V40
Volvo_V60
Volvo_V90
Volvo_XC40

Volvo_XC60
Volvo_XC90
WEICHAI_G3
WEY_P8
WEY_VV5
WEY_VV6
WEY_VV7
WM_EX5
WM_EX6
XiaoPeng_G3
XiaoPeng_P7
Yemaauto_BoJun
Yemaauto_F12
Yemaauto_Spica
Yemaauto_T70
Yemaauto_T80
YuSheng_S350
YunDu_PI1
YunDu_PI3
ZHONGXING_C3
Zhonghua_H220
Zhonghua_H230
Zhonghua_H3
Zhonghua_H530

Zhonghua_JunJie
Zhonghua_V3
Zhonghua_V5
Zhonghua_V6
Zhonghua_V7
Zotye_DaMAi
Zotye_E500
Zotye_SR7
Zotye_SR9
Zotye_T300
Zotye_T500
Zotye_T600
Zotye_T700
Zotye_Yun100
Zotye_Z200
Zotye_Z300
Zotye_Z500
Zotye_Z700
Zotye_ZhiMa

2.6 SendAlarmStatus

SendAlarmStatus

Description	To send the alarm status to the alarm server when an alarm happens. This command will be used by the device. The alarm server should provide HTTP service to receive this command. Only used when the "subscribeFlag" of "SetSubscribe" set to "BASE_SUBSCRIBE".
Typical URL	POST http://<alarm server>[:port]/SendAlarmStatus
Channel ID	None
Action name	None
Entity Data	The alarm status should be included in the entity of request message. The whole "alarmStatusInfo" element in the response for "GetAlarmStatus" should be included in entity of this message.

```
<?xml version="1.0" encoding="UTF-8"?>
<config version="1.0" xmlns="http://www.ipc.com/ver10">
    <alarmStatusInfo>
        <motionAlarm type="boolean" id="1">false</motionAlarm>
        <sensorAlarmIn type="list" count="1">
            <itemType type="boolean"/>
            <item id="1">false</item>
        </sensorAlarmIn>
        <perimeterAlarm type="boolean" id="1">false</perimeterAlarm>
        <tripwireAlarm type="boolean" id="1">false</tripwireAlarm>
        <oscAlarm type="boolean" id="1">false</oscAlarm>
        <sceneChange type="boolean" id="1">false</sceneChange>
        < clarityAbnormal type="boolean" id="1">false</clarityAbnormal >
        <colorAbnormal type="boolean" id="1">false</colorAbnormal>
        <cpcAlarm type="boolean" id="1">false</cpcAlarm>
        <ipdAlarm type="boolean" id="1">false</ipdAlarm>
        <cddAlarm type="boolean" id="1">false</cddAlarm>
        <vfdAlarm type="boolean" id="1">false</vfdAlarm>
    </alarmStatusInfo>
    <dataTime type="string"><![CDATA[2017-09-25 05:57:47]]></dataTime>
    <deviceInfo>
        <deviceName type="string"><![CDATA[IPC]]></deviceName>
        <deviceNumber type="string"><![CDATA[1]]></deviceNumber>
```

<sn type="string"><![CDATA[I1EDC027R222]]></sn> <ipAddress type="string"><![CDATA[192.168.13.178]]></ipAddress> <macAddress type="string"><![CDATA[00:18:ae:5e:1e:dc]]></macAddress> </deviceInfo> </config>	
Successful Response	NONE
[Tips]:	

2.7 SubscribeTimeOut

SubscribeTimeOut	
Description	Sending a timeout message indicates that the subscription is expired.Then close the tcp connection.
Typical URL	POST http://<alarm server>[:port]/ SubscribeTimeOut
Channel ID	None
Action name	None
Entity Data	Indicate subscription timeout
<?xml version="1.0" encoding="UTF-8" ?> <timeout> <serverAddress type="string"> <![CDATA[http://10.20.18.203:8080/IPC/event/subsription_4]]></serverAddress> <currentTime type="uint32">1590212309</currentTime> <terminationTime type="uint32">1590212309</terminationTime>	

</timeout>	
Successful Response	NONE
[Tips]:	

Appendix A

A.1 Remark

The type of Alarm	whether have AlarmData(Feature)	whether have AlarmStatus
MOTION （motion detection）	YES	YES
SENSOR （sensor alarm）	**NONE**	YES
PEA (Sterile Area\line crossing)	YES	YES
AVD （tampering<video blur>） （tampering<video cast>）	**NONE**	YES

（tampering<scene change>）		
OSC （item monitoring<missing>） （item monitoring <left>）	YES	YES
CPC （People Counting）	YES	YES
CDD （Crowd Density Detection）	YES	YES
IPD （People Intrusion）	YES	YES
VFD （face detection）	YES	YES

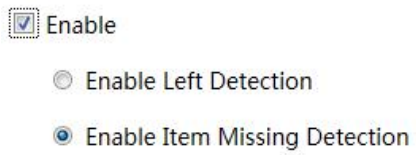
The type of Alarm	The way of distinguishing feedback AlarmData(Feature)	The way of distinguishing feedback AlarmStatus
MOTION （motion detection）	motion	motionAlarm
SENSOR （sensor alarm）	NONE	sensorAlarm
PEA （Sterile Area）	Perimeter	perimeterAlarm
PEA （line crossing）	Tripwire	tripwireAlarm
AVD （tampering<video blur>）	NONE	clarityAbnormal
AVD （tampering<video cast>）	NONE	colorAbnormal

AVD （Tampering<scene change>）	NONE	sceneChange
OSC （item monitoring<missing>） （item monitoring <left>）	smartType：OSC	oscAlarm
CPC （People Counting）	CPC	CPCAlarm
CDD （Crowd Density Detection）	CDD	CDDAlarm
IPD （People Intrusion）	IPD	IPDAlarm
VFD （face detection）	VFD	VFDAlarm

Note:

Currently OSC can only judge by the two way:

1、Through the IPC Web to identify whether it is “left detection” or “missing detection” option.



2、Use the “GetSmartOscConfig” referred to the API document.

Subscribe Option	Feedback AlarmData(Feature) type
FEATURE_RESULT（feature information）	FEATURE_RESULT（feature information）+ FEATURE_RULE（Rule information change）
ALARM（alarm information）	ALARM（alarm information）+ FEATURE_RULE(Rule information change)
ALARM_REATURE（feature and alarm information）	ALARM （alarm information）+ FEATURE_RESULT（feature information）+ FEATURE_RULE（Rule

	information change）

A.2 Change Log

Date	Version	Note
2018-01-18	draft	
2018-07-02	release	add some annotations
2020-05-07	release	**1.Modify SendAlarmData 2.5.9 VFD 2.5.10 add nodes “g**lasses wearmask temperature**”**
2020-05-23	release	**1.Add 1.2.3 SubScription lifecyle, Add SendSubscribeTimeOut 2.7**
2021-03-04	release	**1.Modify 2.5.11 SendAlarmData VEHICLE, Add nodes “**vehicleDirect **”**
2022-08-06	draft	**1.Add 2.5.16 vsd**