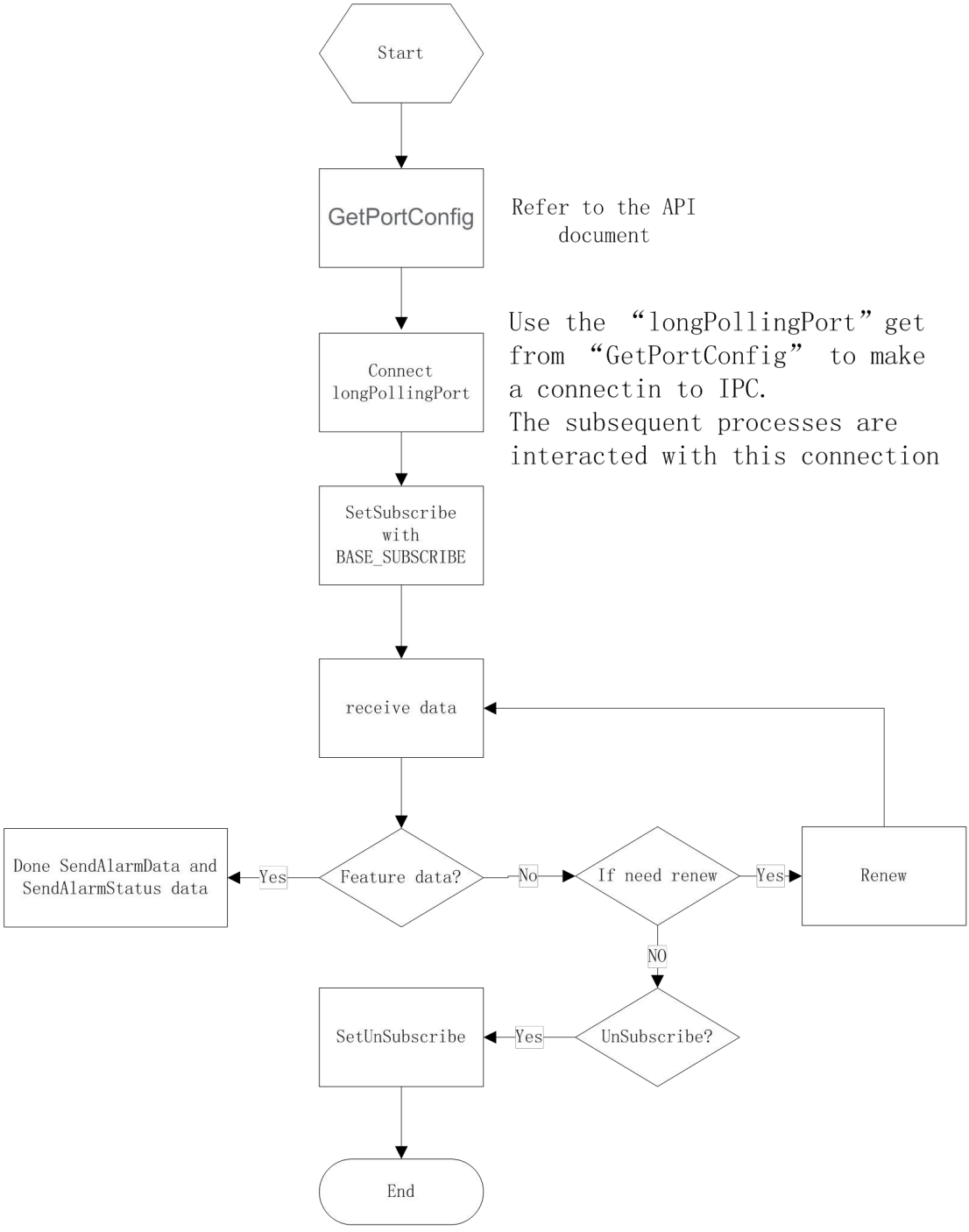
HTTP LongPooling API

For IPOX Media Device

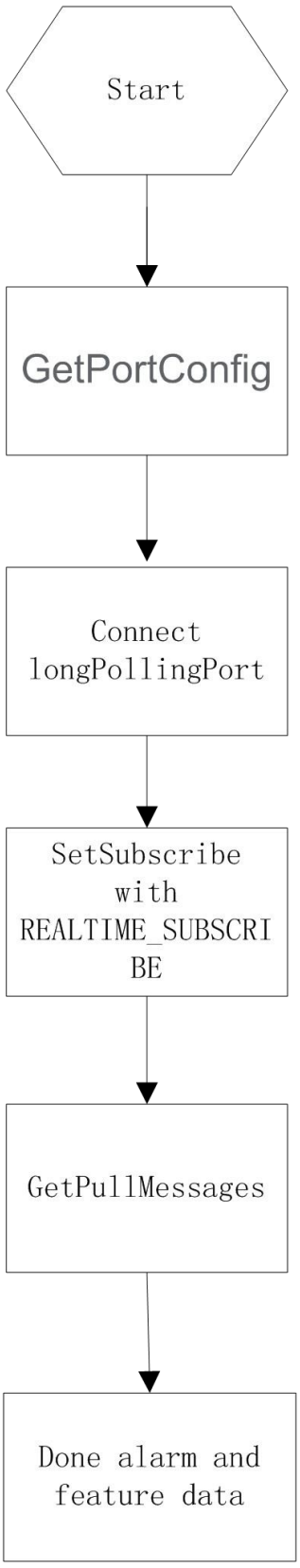
Contents

1.2 Flowchart

1.2.1 Base Subscribe



1.2.2 Realtime Subscribe



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>
<enum>VFD_MATCH</enum>
<enum>VEHICLE</enum>
<enum>AOIENTRY</enum>
<enum>AOILEAVE</enum>
<enum>PASSLINECOUNT</enum>
<enum>TRAFFIC</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>
</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/TVT/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/TVT/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
<?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/TVT/event/subsription_1]]></serverAddress> </config>	
Successful Response	
<?xml version="1.0" encoding="UTF-8"?> <config version="1.0" xmlns="http://www.ipc.com/ver10" status="success" errorCode="200"/>	
[Tips]:	

2.4 GetPullMessages

GetPullMessages	
Description	To get pull message. Only used when the "subscribeFlag" of "SetSubscribe" set to "REALTIME_SUBSCRIBE".
Typical URL	POST or GET http://<host>[:port]/GetPullMessages
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/TVT/event/subsription_0]]></serverAddress>
<timeout type="uint32" >20</timeout>
<messageLimit type="uint32">10</messageLimit>
</config>
```

Successful Response	

```
<?xml version="1.0" encoding="UTF-8" ?>
<config version="1.0" xmlns="http://www.ipc.com/ver10">
    <currentTime type="uint32">1506318051</currentTime>
    <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]:

2.4.1 GetPullMessages

GetPullMessages	
Description	To get pull message. Only used when the "subscribeFlag" of "SetSubscribe" set to "REALTIME_SUBSCRIBE".
Typical URL	POST or GET http://<host>[:port]/GetPullMessages
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/TVT/event/subsription_0]]></serverAddress>
<timeout type="uint32" >20</timeout>
<messageLimit type="uint32">10</messageLimit>
</config>
```

Successful Response	

```
<?xml version="1.0" encoding="UTF-8" ?>
<config version="1.7" xmlns="http://www.ipc.com/ver10">
<currentTime type="uint32">1563529920</currentTime>
<terminationTime type="uint32">1563529980</terminationTime>
<alarmInfoList type="list" count="2">
<item>
<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">1563529920218795</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">0</data>
</item>
<item>
<data type="uint32">32</data>
</item>
<item>
<data type="uint32">32</data>

```
</item>
<item>
<data type="uint32">16</data>
</item>
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</item>
<item>
<data type="uint32">0</data>
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<data type="uint32">0</data>
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<data type="uint32">0</data>
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</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>
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</dataList>
</item>
<item>
<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">1563529920219283</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">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>

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<item>
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</item>
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<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>
</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>
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<data type="uint32">0</data>
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<data type="uint32">0</data>
</item>
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<data type="uint32">0</data>
</item>
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<data type="uint32">0</data>
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<item>
<data type="uint32">0</data>
</item>
<item>
<data type="uint32">32768</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> \</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>
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</item>
<item>
    <data type="uint32">4192767</data>
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    <data type="uint32">4192767</data>
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</item>
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    <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

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

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

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

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

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

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

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>
</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>
<temperature type="float">36.5</temperature>
<comprehensive_score type="float">92.00</comprehensive_score>
<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

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>
</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="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="tuint32">1</image>
<vehicleId type="tuint32">17</vehicleId>
<plateNumber type="string"><![CDATA鐽糰 TV1Q8]]</plateNumber>
<plateCharCount type="tuint32">7</plateCharCount>
<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

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

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

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

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 -->	

2.6 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]:

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 (Intrusion\line crossing)	YES	YES
AVD (exception<video blur>)	**NONE**	YES

(exception<video cast>) (exception<scene change>)		
OSC (object removal<missing>) (object removal <left>)	YES	YES
CPC (People Counting)	YES	YES
CDD (Crowd Density Detection)	YES	YES
IPD (People Intrusion)	YES	YES
VFD (face recognition)	YES	YES

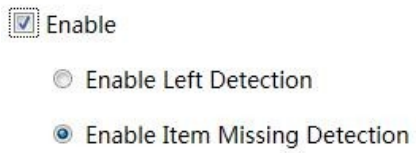
The type of Alarm	The way of distinguishing feedback AlarmData(Feature)	The way of distinguishing feedback AlarmStatus
MOTION (motion detection)	motion	motionAlarm
SENSOR (sensor alarm)	NONE	sensorAlarm
PEA (Intrusion)	Perimeter	perimeterAlarm
PEA (line crossing)	Tripwire	tripwireAlarm
AVD (exception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

(exception<video cast>)		
AVD (exception<scene change>)	NONE	sceneChange
OSC (object removal<missing>) (object removal <left>)	smartType：OSC	oscAlarm
CPC (People Counting)	CPC	CPCAlarm
CDD (Crowd Density Detection)	CDD	CDDAlarm
IPD (People Intrusion)	IPD	IPDAlarm
VFD (face recognition)	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	ALARM (alarm information) + FEATURE_RESULT

information)	(feature information) + FEATURE_RULE (Rule information change)