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| 智慧园区综合管理平台 |
| 报警子系统对外开放接口文档 |
| **V1.0.2** |
| 浙江大华技术股份有限公司 |

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|  |  |  |  |  |
|  |  |  |  |  |

目录

[法律声明 I](#_Toc37271645)

[更新记录 III](#_Toc37271646)

[文档说明 V](#_Toc37271647)

[编写目的 V](#_Toc37271648)

[阅读对象 V](#_Toc37271649)

[相关术语 V](#_Toc37271650)

[开发指南 6](#_Toc37271651)

[协议综述 6](#_Toc37271652)

[错误响应及错误码 6](#_Toc37271653)

[字符编码 6](#_Toc37271654)

[1 资源目录 7](#_Toc37271655)

[1.1鉴权认证 7](#_Toc37271656)

[方式一: 7](#_Toc37271657)

[1.1.1 获取公钥 7](#_Toc37271658)

[1.1.2 鉴权参数获取(token,userId,userName) 8](#_Toc37271659)

[1.1.3 接口鉴权方式 10](#_Toc37271660)

[方式二: 10](#_Toc37271661)

[1.1.1获取随机数 10](#_Toc37271662)

[1.1.2鉴权参数获取(token,userId,userName) 12](#_Toc37271663)

[1.1.3接口鉴权方式 13](#_Toc37271664)

[1.2报警记录 13](#_Toc37271665)

[1.2.1查询报警记录 13](#_Toc37271666)

[附录 26](#_Toc37271667)

[报警类型 26](#_Toc37271668)

[处理状态 31](#_Toc37271669)

[报警状态 32](#_Toc37271670)

[单元类型 32](#_Toc37271671)

文档说明

## 编写目的

智慧园区综合管理平台(以下简称平台)

文档详细描述了平台开发的API资源接口,调用方式,返回结果以及使用场景等,用于第三方平台基于本平台做二次开发。

## 阅读对象

第三方厂家、合作伙伴、开发者等

## 相关术语

|  |  |
| --- | --- |
| 术语 | 解释 |
| api | 开放对外接口名 |
| token | 资源令牌,一种随机数用于资源认证 |
| URI | 统一资源标识符,用于标识资源名称的字符串 |
| URL | 统一资源定位符,用于获取资源位置和方法的简介表示 |
| header | http请求头,key-value键值对形式展现 |
| base64 | 一种编码格式 |
| MD5 | Message Digest algorithm 5(信息摘要算法) |
| SHA | Secure Hash Algorithm(安全散列算法) |
| HMAC | Hash Message Authentication Code(散列消息鉴别码) |
| TCP | Transmission Control Protocol(传输控制协议) |
| UDP | User Datagram Protocal(用户数据报协议) |
| SSL | Secure Sockets Layer(安全套接层) |
| http | HyperText Transfer Protocal(超文本传输协议) |
| https | 安全的http协议 |
| AMQP | Advanced Message Queuing Protocal(高级消息队列协议) |
| MQTT | Message Queuing Telemetry(消息队列遥测传输) |
| stomp | 流文本定向消息协议 |
| HLS | HTTP Live Streaming(一种由苹果公司提出的基础http的流媒体传输协议) |
| RTSP | Real Time Streaming Protocal(实时流传输协议) |
| RTMP | Real Time Messaging Protocal(实时消息传输协议) |

开发指南

## 协议综述

平台提供了各子系统:基础视频、一卡通、停车场、可视对讲、人脸、信息发布、动环、广播等API接口协议。所有API接口访问，都基于HTTP/1.1协议,遵循RESTFul风格。API访问的数据采用JSON格式。

平台的RESTful API,资源操作action遵循HTTP Verbs的语义:

|  |  |
| --- | --- |
| Verb | Description |
| HEAD | 可以获取任何资源的HTTP头信息 |
| GET | 用于获取资源,不能在content中带参数 |
| POST | 用于创建资源、更新资源 |
| PUT | 用于替换资源 |
| DELETE | 用于删除资源 |

所有的协议访问都要经过鉴权中心认证，所以在开始业务前,一定要用先创建会话来获取token,并在后续请求的HTTP URL后加上参数token,userId,userName。由于token是有一定期限的,获取token后,必须定时会话保活,默认的token有效期为半小时。

eg1:token拼接方式:

请求url后拼接上userId,username,token

eg:http://127.0.0.1:8314/admin/rest/api?userId=1&username=system&token=36F5B00B64004F30FB99723FAC005D15

eg2:token的保活方式:

调用模拟登录接口获取token,后续建议每半小时模拟登录一次重新获取token

ip:port为平台的ip,端口号若无特殊说明默认为8314

https调用的话需要屏蔽证书

## 错误响应及错误码

平台接口返回标识以调用各子系统返回值为主,在资源目录对应的子系统概述中有详细解释

## 字符编码

UTF-8

# 资源目录

## 1.1鉴权认证

### 方式一:

**接口描述:**

目前获取鉴权参数的主要方式是通过方式一;

通过方式二获取鉴权参数主要的8900配套版本为:8900 v3.1.4 bugfix版本

### 获取公钥

**接口描述:**

用于获取令牌token步骤中密码的加密,加密方式为RSA加密,该接口默认端口为8314

**请求语法(URI):**

POST /WPMS/getPublicKey

**请求头:**

|  |
| --- |
| Content-type: application/json |

**请求参数:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 字段 | 说明 | 类型 | 长度 | 是否必填 | 备注 |
| loginName | 用户名 | string | 64 | Y |  |

**示例:**

|  |
| --- |
| {  "loginName": "system"  } |

**返回结果:**

|  |  |  |  |
| --- | --- | --- | --- |
| 字段 | 说明 | 类型 | 备注 |
| success | 成功与否 | string | true:成功;false:失败 |
| errMsg | 错误原因 | string |  |
| publicKey | RSA公钥 | string | 用于1.1.2接口中密码的加密 |

**示例:**

|  |
| --- |
| {  "nonce": "MjAxOS0wMy0yMCAxNDoxMToyOQ==",  "publicKey": "MIGfMA0GCSqGSIb3DQEBAQUAA4GNADCBiQKBgQCjm5ANYIIGrl2MMsuN+4X/Bp2KR4tKTF1qvJR/qNhpr5BeRcnhO2Fj//tyTXEBpa+FwyxWVnxWOYSBhsd/GAiuPvjRfU2ZSPDwH/YZEQDcFSuinzKb2EWM0pAnp+bqJfcemccLB8ulTygB61Bb1n9Eg6qjK/x55phCPYR6sDEZ1QIDAQAB",  "success": "true"  } |

**抓包截图:**

|  |
| --- |
| POST /WPMS/getPublicKey?spm=1585791976070 HTTP/1.1  Host: 10.35.120.145:443  X-Forwarded-Scheme: https  X-Real-IP: 10.33.65.13  X-Forwarded-For: 10.33.65.13  Content-Length: 22  Accept: \*/\*  Origin: https://10.35.120.145  X-Requested-With: XMLHttpRequest  Content-Type: application/json; charset=UTF-8  User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/41.0.2272.89 Safari/537.36  randomSession: 123123  Referer: https://10.35.120.145/WPMS/  Accept-Encoding: gzip, deflate  Accept-Language: zh-CN,zh;q=0.8  Cookie: JSESSIONID=58C3057B5E6FDA64588F02D3E99EFA1C; currentToken=724f1f8129283c642a8d8634936b7066; JSESSIONID=60A6BC618B6B90EBD4FC6186D6602B49  {"loginName":"system"}HTTP/1.1 200 OK  Server: Apache-Coyote/1.1  Content-Type: application/json;charset=UTF-8  Content-Length: 395  Date: Thu, 02 Apr 2020 01:38:01 GMT  {"success":"true","loginName":null,"errMsg":null,"token":null,"id":null,"cmsIp":null,"cmsPort":null,"orgCode":null,"publicKey":"MIGfMA0GCSqGSIb3DQEBAQUAA4GNADCBiQKBgQCXKVZBdh63Cck+h4Vn7ZAiKaLikC+VhkQKxKxheBBZofLtwI+WI8fmUFsoEhjy/nfDJkeSHFgdt9Ba1lXyIZNLtKT1KdhXOqC32w1YqMsg1NnBTrMLbuyVUVTcLRcn1CjX4j9K+ap1BF5whvl3Sos797Hpm6MiCdS2p4nLWEThVwIDAQAB","nonce":"MjAyMC0wNC0wMiAwOTozODowMQ\u003d\u003d"} |

### 鉴权参数获取(token,userId,userName)

**接口描述:**

用于获取接口鉴权的token,userId,userName

接口每次调用时,publicKey需要实时获取

该接口默认端口为8314

**请求语法(URI):**

POST /WPMS/login

**请求头:**

|  |
| --- |
| Content-type: application/json |

**请求参数:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 字段 | 说明 | 类型 | 长度 | 是否必填 | 备注 |
| loginName | 用户名 | string | -- | Y |  |
| loginPass | 密码 | string | -- | Y | RSA加密,公钥通过1.1.1获取 |

**示例:**

|  |
| --- |
| {  "loginName": "system",  "loginPass": "IaAVo4XYVla+0sn9P71B/AunGpFMzrn3pbLwv7IN6WgiUpOXaKH1j2XKyLfWbGSJMkDyMCau0glenYtXPCZjFL1HPdP0a+YlYLnkhKZThlj6fC8z8qiT3zbU9VCOjudHWfDMXcJeEfDrmF53hq0eeITsBW3qtZdezuVioQu1OHs="  } |

**返回结果:**

|  |  |  |  |
| --- | --- | --- | --- |
| 字段 | 说明 | 类型 | 备注 |
| success | 成功与否 | string | true:成功;false:失败 |
| errMsg | 错误原因 | string |  |
| token | 令牌 | string | 用于后续接口认证(token) |
| loginName | 用户名 | string | 用于后续接口认证(userName) |
| id | 用户id | id | 用于后续接口认证(userId) |

**测试demo:**

查看 调用sdk及demo\sdk-demo(java) 文件夹下的 SdkClient.login 方法

**示例:**

|  |
| --- |
| {  "cmsIp": "10.35.120.122",  "cmsPort": "9000",  "id": "1",  "loginName": "system",  "orgCode": "001",  "publicKey": "",  "success": "true",  "token": "bb4dd8197dc4aa54d107e490dcad9063"  } |

**抓包截图:**

|  |
| --- |
| POST /WPMS/login?spm=1585791976098 HTTP/1.1  Host: 10.35.120.145:443  X-Forwarded-Scheme: https  X-Real-IP: 10.33.65.13  X-Forwarded-For: 10.33.65.13  Content-Length: 241  Accept: \*/\*  Origin: https://10.35.120.145  X-Requested-With: XMLHttpRequest  Content-Type: application/json; charset=UTF-8  User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/41.0.2272.89 Safari/537.36  randomSession: 123123  Referer: https://10.35.120.145/WPMS/  Accept-Encoding: gzip, deflate  Accept-Language: zh-CN,zh;q=0.8  Cookie: JSESSIONID=58C3057B5E6FDA64588F02D3E99EFA1C; currentToken=724f1f8129283c642a8d8634936b7066; JSESSIONID=60A6BC618B6B90EBD4FC6186D6602B49  {"loginName":"system","loginPass":"fTWv1GX0NlGge7Fuv9EmzjyFJOYQHFqty5YgDg13I29OveL4LvFUn0ycwdeCAntm0u+egjizIJPRXeO7T1b6Y4UG5/PcjnDvE0nrqu64zub+NKEraFL5LEHCtE+Ps4QDKCt6f1nnBFkuILpZEZDpk6d9LGtx0q5LwKAJngKi+CU=","timestamp":"15857914846209151"}HTTP/1.1 200 OK  Server: Apache-Coyote/1.1  Content-Type: application/json;charset=UTF-8  Content-Length: 1046  Date: Thu, 02 Apr 2020 01:38:01 GMT  {"success":"true","loginName":"system","errMsg":null,"token":"53e2d6738b5c49e8086c47987bd5bd01","id":"1","cmsIp":"10.35.120.145","cmsPort":null,"orgCode":"001","publicKey":"\u003d\u003d","nonce":null} |

### 接口鉴权方式

获取token鉴权方式见[协议综述](#_协议综述)

### 方式二:

**接口描述:**

适用于8900 v3.1.4 bugfix版本

### 1.1.1获取随机数

**接口描述:**

用于获取token的密码加密的随机数,该接口默认端口为8314

**请求语法(URI):**

POST /WPMS/getCryptKey

**请求头:**

|  |
| --- |
| Content-type: application/json |

**请求参数:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 字段 | 说明 | 类型 | 长度 | 是否必填 | 备注 |
| loginName | 用户名 | string | 64 | Y |  |

**示例:**

|  |
| --- |
| {  "loginName": "system"  } |

**返回结果:**

|  |  |  |  |
| --- | --- | --- | --- |
| 字段 | 说明 | 类型 | 备注 |
| success | 成功与否 | string | true:成功;false:失败 |
| errMsg | 错误原因 | string |  |
| publicKey | 随机数 | string | 用于获取token的密码加密 |

**示例:**

|  |
| --- |
| {  "success": "true",  "loginName": null,  "errMsg": null,  "token": null,  "id": null,  "cmsIp": null,  "cmsPort": null,  "orgCode": null,  "publicKey": "37c0aefcedd7e923914c48fc177a807f",  "nonce": "MjAxOS0xMS0xOCAxNTozMDoyNQ=="  } |

**抓包截图:**

|  |
| --- |
| POST /WPMS/getCryptKey HTTP/1.1  Host: 10.35.120.145:8314  Connection: keep-alive  Content-Length: 30  Cache-Control: no-cache  Origin: chrome-extension://kcchblbcjgmlepphcapghahekamiipea  User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/41.0.2272.89 Safari/537.36  Content-Type: application/json  Accept: \*/\*  Accept-Encoding: gzip, deflate  Accept-Language: zh-CN,zh;q=0.8  Cookie: JSESSIONID=85DEF1188C8F3346079C7DCA8D5FE78D; JSESSIONID=F6E432B128835A3DB3852B1F80D61177  {  "loginName": "system"  }  HTTP/1.1 200 OK  Server: Apache-Coyote/1.1  Content-Type: application/json;charset=UTF-8  Content-Length: 211  Date: Wed, 01 Apr 2020 00:15:29 GMT  {"success":"true","loginName":null,"errMsg":null,"token":null,"id":null,"cmsIp":null,"cmsPort":null,"orgCode":null,"publicKey":"37c0aefcedd7e923914c48fc177a807f","nonce":"MjAyMC0wNC0wMSAwODoxNToyOQ\u003d\u003d"} |

### 1.1.2鉴权参数获取(token,userId,userName)

**接口描述:**

用于获取接口鉴权的token,userId,userName

**请求语法(URI):**

POST /WPMS/apiLogin

**请求头:**

|  |
| --- |
| Content-type: application/json |

**请求参数:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 字段 | 说明 | 类型 | 长度 | 是否必填 | 备注 |
| loginName | 用户名 | string | -- | Y |  |
| loginPass | 密码 | string | -- | Y | base64(密码+接口1.1.1返回的随机数) |

**示例:**

|  |
| --- |
| {  "loginName": "system",  "loginPass": "ZGFodWEyMDA2MzdjMGFlZmNlZGQ3ZTkyMzkxNGM0OGZjMTc3YTgwN2Y="  } |

**返回结果:**

|  |  |  |  |
| --- | --- | --- | --- |
| 字段 | 说明 | 类型 | 备注 |
| success | 成功与否 | string | true:成功;false:失败 |
| errMsg | 错误原因 | string |  |
| token | 令牌 | string | 用于后续接口认证(token) |
| loginName | 用户名 | string | 用于后续接口认证(userName) |
| id | 用户id | id | 用于后续接口认证(userId) |

**示例:**

|  |
| --- |
| {  "success": "true",  "loginName": "system",  "errMsg": null,  "token": "db1777b32914947e801200c9d89b8ad8",  "id": "1",  "cmsIp": "10.35.122.134",  "cmsPort": null,  "orgCode": "001",  "publicKey": "37c0aefcedd7e923914c48fc177a807f",  "nonce": null  } |

**抓包截图:**

|  |
| --- |
| POST /WPMS/apiLogin HTTP/1.1  Host: 10.35.120.145:8314  Connection: keep-alive  Content-Length: 108  Cache-Control: no-cache  Origin: chrome-extension://kcchblbcjgmlepphcapghahekamiipea  User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/41.0.2272.89 Safari/537.36  Content-Type: application/json  Accept: \*/\*  Accept-Encoding: gzip, deflate  Accept-Language: zh-CN,zh;q=0.8  Cookie: JSESSIONID=85DEF1188C8F3346079C7DCA8D5FE78D; JSESSIONID=F6E432B128835A3DB3852B1F80D61177  {  "loginName": "system",  "loginPass": "ZGFodWEyMDIwMzdjMGFlZmNlZGQ3ZTkyMzkxNGM0OGZjMTc3YTgwN2Y="  }  HTTP/1.1 200 OK  Server: Apache-Coyote/1.1  Content-Type: application/json;charset=UTF-8  Content-Length: 220  Date: Wed, 01 Apr 2020 00:17:27 GMT  {"success":"true","loginName":"system","errMsg":null,"token":"9cc68f9e0329ee7c1d4fd3ea72eaa2ff","id":"1","cmsIp":"10.35.120.145","cmsPort":null,"orgCode":"001","publicKey":"37c0aefcedd7e923914c48fc177a807f","nonce":null} |

**示例:**

|  |
| --- |
| Demo1:  Base64(dahua200637c0aefcedd7e923914c48fc177a807f)  ==  ZGFodWEyMDA2MzdjMGFlZmNlZGQ3ZTkyMzkxNGM0OGZjMTc3YTgwN2Y=  Demo2:  Base64(Admin12337c0aefcedd7e923914c48fc177a807f)  ==  QWRtaW4xMjMzN2MwYWVmY2VkZDdlOTIzOTE0YzQ4ZmMxNzdhODA3Zg== |

### 1.1.3接口鉴权方式

获取token鉴权方式见[协议综述](#_协议综述)

## 1.2报警记录

### 1.2.1查询报警记录

**接口描述:**

访问地址统一为[/admin/rest/api](http://ip:port/admin/rest/api),

请求方式为POST,

请求类型: application/json;charset=utf-8

请求参数: {"interfaceId":"","jsonParam":""}

请求参数:

|  |  |
| --- | --- |
| 参数 | 说明 |
| interfaceId | 接口标示符,各接口有详细说明 |
| jsonParam | 接口参数 |

jsonParam参数以及接口返回值详解:

jsonParam格式示例:

|  |
| --- |
| {  \"param\": {    },  \"pagination\": {  \"currentPage\": 1,  \"pageSize\": 10  },  \"orders\": [{  \"propertyNam\e": \"id\",  \"ascending\": \"false\"  }],  \"locale\": 'zh-CN'  } |

|  |  |
| --- | --- |
| 参数 | 说明 |
| param | 接口参数内容 |
| pagination | 用于分页查询时使用 |
| currentPage | 第几页数据，1表示第一页 |
| pageSize | 每页数据数 |
| orders | 用于自定义排序, 支持多个排序 |
| propertyName | 自定义排序的属性 |
| ascending | true表示升序，false表示降序 |
| locale | 共2种，en 和 zh-CN (表示英文和简体中文), 可不填，不填为简体中文 |

接口返回值格式示例:

|  |
| --- |
| {  "param": {    },  "data": {    },  "pagination": {  "currentPage": 1,  "pageSize": 10  },  result: {  code: "100002",  msg: "planName的长度小于50"  },  locale: "zh-CN"  } |

|  |  |
| --- | --- |
| 参数 | 说明 |
| param | 接口参数内容，传过来是什么，就是什么 |
| data | 结果数据，如果发生错误，则不返回该属性 |
| pagination | 用于分页查询时使用 |
| currentPage | 第几页数据，1表示第一页 |
| pageSize | 每页数据数 |
| result | 返回结果标识 |
| code | 错误码 |
| msg | 错误内容 |
| locale | 共2种，en 和 zh-CN (表示英文和简体中文), 可不填，不填为简体中文 |

错误码code:

|  |  |
| --- | --- |
| 参数 | 说明 |
| 100001 | 接口调用成功 |
| 100003 | 字段长度不正确 |
| 100004 | 字段必填 |
| 100005 | 字段格式不合法 |

**请求语法(URI):**

POST [/admin/rest/api](http://ip:port/admin/rest/api)

**请求头:**

|  |
| --- |
| Content-type: application/json |

**请求参数(param):**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 字段 | 说明 | 类型 | 长度 | 是否必填 | 备注 |
| alarmCategory | -- | string | 16 | Y | 写死 device |
| orgCode | 组织编码 | string | 2 | N |  |
| deviceCode | 设备编码 | string | 90 | N |  |
| channelId | 通道编码 | string | 90 | N |  |
| alarmType | 报警类型 | string | 50 | N |  |
| minAlarmDate | 最早报警时间 | string | -- | N |  |
| maxAlarmDate | 最迟报警时间 | string | -- | N |  |
| alarmStat | 报警状态 | string | 2 | N |  |
| handleStat | 处理状态 | string | 2 | N |  |
| minHandleDate | 最早处理时间 | string | -- | N |  |
| maxHandleDate | 最早处理时间 | string | -- | N |  |

支持排序字段id, alarmDate,alarmType

**示例:**

含分页

|  |
| --- |
| {  "interfaceId": "admin\_008\_001",  "jsonParam":"{\"param\":{\"alarmType\":\"1\",\"alarmCategory\":\"device\",\"deviceCode\":\"1000001\"},\"pagination\": {\"currentPage\": 1,\"pageSize\": 2}}"  } |

不含分页

|  |
| --- |
| {  "interfaceId": "admin\_008\_001",  "jsonParam": "{\"param\":{\"alarmType\":\"1\",\"alarmCategory\":\"device\",\"deviceCode\":\"1000001\"}}"  } |

**interfaceId:**

admin\_008\_001

**返回结果(data):**

|  |  |  |  |
| --- | --- | --- | --- |
| 字段 | 说明 | 类型 | 备注 |
| alarmDateString | 报警日期 | string |  |
| alarmGrade | 报警等级 | string |  |
| alarmGradeName | 报警等级名称 | string |  |
| alarmPicture | 报警图片 | string |  |
| alarmStat | 报警状态 | string | 详见字典 |
| alarmType | 报警类型 | string | 详见字典 |
| alarmTypeName | 报警类型名称 | string |  |
| channelName | 通道名称 | string |  |
| deviceName | 设备名称 | string |  |
| handleStat | 处理状态 | string | 详见字典 |
| handleStatName | 处理状态名称 | string |  |
| id | 记录id | long |  |
| unitType | 单元类型 | long | 详见字典 |

**示例:**

|  |
| --- |
| {  "data": [  {  "alarmDateString": "2019-12-07 20:56:04.0",  "alarmGrade": "0",  "alarmGradeName": "",  "alarmPicture": "",  "alarmStat": "2",  "alarmType": "1",  "alarmTypeName": "视频丢失",  "channelName": "门口机\_1",  "deviceName": "门口机",  "handleStat": "5",  "handleStatName": "未处理",  "id": 306129,  "unitType": 1  },  {  "alarmDateString": "2019-12-07 20:55:04.0",  "alarmGrade": "0",  "alarmGradeName": "",  "alarmPicture": "",  "alarmStat": "2",  "alarmType": "1",  "alarmTypeName": "视频丢失",  "channelName": "门口机\_1",  "deviceName": "门口机",  "handleStat": "5",  "handleStatName": "未处理",  "id": 306099,  "unitType": 1  },  {  "alarmDateString": "2019-12-07 20:46:53.0",  "alarmGrade": "0",  "alarmGradeName": "",  "alarmPicture": "",  "alarmStat": "2",  "alarmType": "1",  "alarmTypeName": "视频丢失",  "channelName": "门口机\_1",  "deviceName": "门口机",  "handleStat": "5",  "handleStatName": "未处理",  "id": 306032,  "unitType": 1  },  {  "alarmDateString": "2019-12-07 20:45:53.0",  "alarmGrade": "0",  "alarmGradeName": "",  "alarmPicture": "",  "alarmStat": "2",  "alarmType": "1",  "alarmTypeName": "视频丢失",  "channelName": "门口机\_1",  "deviceName": "门口机",  "handleStat": "5",  "handleStatName": "未处理",  "id": 306008,  "unitType": 1  },  {  "alarmDateString": "2019-12-07 20:40:38.0",  "alarmGrade": "0",  "alarmGradeName": "",  "alarmPicture": "",  "alarmStat": "2",  "alarmType": "1",  "alarmTypeName": "视频丢失",  "channelName": "门口机\_1",  "deviceName": "门口机",  "handleStat": "5",  "handleStatName": "未处理",  "id": 305949,  "unitType": 1  },  {  "alarmDateString": "2019-12-07 20:39:37.0",  "alarmGrade": "0",  "alarmGradeName": "",  "alarmPicture": "",  "alarmStat": "2",  "alarmType": "1",  "alarmTypeName": "视频丢失",  "channelName": "门口机\_1",  "deviceName": "门口机",  "handleStat": "5",  "handleStatName": "未处理",  "id": 305924,  "unitType": 1  },  {  "alarmDateString": "2019-12-07 19:59:14.0",  "alarmGrade": "0",  "alarmGradeName": "",  "alarmPicture": "",  "alarmStat": "2",  "alarmType": "1",  "alarmTypeName": "视频丢失",  "channelName": "门口机\_1",  "deviceName": "门口机",  "handleStat": "5",  "handleStatName": "未处理",  "id": 305679,  "unitType": 1  },  {  "alarmDateString": "2019-12-07 19:58:14.0",  "alarmGrade": "0",  "alarmGradeName": "",  "alarmPicture": "",  "alarmStat": "2",  "alarmType": "1",  "alarmTypeName": "视频丢失",  "channelName": "门口机\_1",  "deviceName": "门口机",  "handleStat": "5",  "handleStatName": "未处理",  "id": 305651,  "unitType": 1  },  {  "alarmDateString": "2019-12-07 19:39:00.0",  "alarmGrade": "0",  "alarmGradeName": "",  "alarmPicture": "",  "alarmStat": "2",  "alarmType": "1",  "alarmTypeName": "视频丢失",  "channelName": "门口机\_1",  "deviceName": "门口机",  "handleStat": "5",  "handleStatName": "未处理",  "id": 305518,  "unitType": 1  },  {  "alarmDateString": "2019-12-07 19:38:00.0",  "alarmGrade": "0",  "alarmGradeName": "",  "alarmPicture": "",  "alarmStat": "2",  "alarmType": "1",  "alarmTypeName": "视频丢失",  "channelName": "门口机\_1",  "deviceName": "门口机",  "handleStat": "5",  "handleStatName": "未处理",  "id": 305482,  "unitType": 1  },  {  "alarmDateString": "2019-12-07 19:03:55.0",  "alarmGrade": "0",  "alarmGradeName": "",  "alarmPicture": "",  "alarmStat": "2",  "alarmType": "1",  "alarmTypeName": "视频丢失",  "channelName": "门口机\_1",  "deviceName": "门口机",  "handleStat": "5",  "handleStatName": "未处理",  "id": 305269,  "unitType": 1  },  {  "alarmDateString": "2019-12-07 19:02:55.0",  "alarmGrade": "0",  "alarmGradeName": "",  "alarmPicture": "",  "alarmStat": "2",  "alarmType": "1",  "alarmTypeName": "视频丢失",  "channelName": "门口机\_1",  "deviceName": "门口机",  "handleStat": "5",  "handleStatName": "未处理",  "id": 305242,  "unitType": 1  },  {  "alarmDateString": "2019-12-07 18:39:19.0",  "alarmGrade": "0",  "alarmGradeName": "",  "alarmPicture": "",  "alarmStat": "2",  "alarmType": "1",  "alarmTypeName": "视频丢失",  "channelName": "门口机\_1",  "deviceName": "门口机",  "handleStat": "5",  "handleStatName": "未处理",  "id": 305054,  "unitType": 1  },  {  "alarmDateString": "2019-12-07 18:38:19.0",  "alarmGrade": "0",  "alarmGradeName": "",  "alarmPicture": "",  "alarmStat": "2",  "alarmType": "1",  "alarmTypeName": "视频丢失",  "channelName": "门口机\_1",  "deviceName": "门口机",  "handleStat": "5",  "handleStatName": "未处理",  "id": 305024,  "unitType": 1  },  {  "alarmDateString": "2019-12-07 18:00:04.0",  "alarmGrade": "0",  "alarmGradeName": "",  "alarmPicture": "",  "alarmStat": "2",  "alarmType": "1",  "alarmTypeName": "视频丢失",  "channelName": "门口机\_1",  "deviceName": "门口机",  "handleStat": "5",  "handleStatName": "未处理",  "id": 304684,  "unitType": 1  },  {  "alarmDateString": "2019-12-07 17:59:04.0",  "alarmGrade": "0",  "alarmGradeName": "",  "alarmPicture": "",  "alarmStat": "2",  "alarmType": "1",  "alarmTypeName": "视频丢失",  "channelName": "门口机\_1",  "deviceName": "门口机",  "handleStat": "5",  "handleStatName": "未处理",  "id": 304653,  "unitType": 1  },  {  "alarmDateString": "2019-12-07 17:36:32.0",  "alarmGrade": "0",  "alarmGradeName": "",  "alarmPicture": "",  "alarmStat": "2",  "alarmType": "1",  "alarmTypeName": "视频丢失",  "channelName": "门口机\_1",  "deviceName": "门口机",  "handleStat": "5",  "handleStatName": "未处理",  "id": 304452,  "unitType": 1  },  {  "alarmDateString": "2019-12-07 17:35:32.0",  "alarmGrade": "0",  "alarmGradeName": "",  "alarmPicture": "",  "alarmStat": "2",  "alarmType": "1",  "alarmTypeName": "视频丢失",  "channelName": "门口机\_1",  "deviceName": "门口机",  "handleStat": "5",  "handleStatName": "未处理",  "id": 304423,  "unitType": 1  },  {  "alarmDateString": "2019-12-07 17:27:43.0",  "alarmGrade": "0",  "alarmGradeName": "",  "alarmPicture": "",  "alarmStat": "2",  "alarmType": "1",  "alarmTypeName": "视频丢失",  "channelName": "门口机\_1",  "deviceName": "门口机",  "handleStat": "5",  "handleStatName": "未处理",  "id": 304345,  "unitType": 1  },  {  "alarmDateString": "2019-12-07 17:26:43.0",  "alarmGrade": "0",  "alarmGradeName": "",  "alarmPicture": "",  "alarmStat": "2",  "alarmType": "1",  "alarmTypeName": "视频丢失",  "channelName": "门口机\_1",  "deviceName": "门口机",  "handleStat": "5",  "handleStatName": "未处理",  "id": 304317,  "unitType": 1  }  ],  "pagination": {  "currentPage": 1,  "pageSize": 20,  "pagesCount": 0,  "recordsCount": 0  },  "param": {  "alarmCategory": "device",  "alarmType": "1",  "isForExport": true  },  "result": {  "code": "success"  }  } |

**抓包截图(分页):**

|  |
| --- |
| POST /admin/rest/api?userId=1&userName=system&token=9e549052d8247bb6103067637ac3b1e2 HTTP/1.1  Host: 10.35.120.145:8314  Connection: keep-alive  Content-Length: 175  Cache-Control: no-cache  Origin: chrome-extension://kcchblbcjgmlepphcapghahekamiipea  User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/41.0.2272.89 Safari/537.36  Content-Type: application/json  Accept: \*/\*  Accept-Encoding: gzip, deflate  Accept-Language: zh-CN,zh;q=0.8  Cookie: JSESSIONID=27360E8391B98A485D3987AA02A5F701; curMenuUrl=deviceAlarm\_init.action; curMenuCode=007008; random=51586913E6F887C4A25C3A75750B7CD7; JSESSIONID=9FB315DA05F5C4F5ABF8EE5273BEE916; currentToken=9e549052d8247bb6103067637ac3b1e2  {  "interfaceId": "admin\_008\_001",  "jsonParam":"{\"param\":{\"alarmCategory\":\"device\",\"deviceCode\":\"1000018\"},\"pagination\": {\"currentPage\": 1,\"pageSize\": 2}}"  }  HTTP/1.1 200 OK  Server: Apache-Coyote/1.1  Cache-Control: no-cache, no-store, must-revalidate  Pragma: no-cache  Expires: Thu, 01 Jan 1970 00:00:00 GMT  Content-Type: application/json;charset=UTF-8  Transfer-Encoding: chunked  Date: Wed, 08 Apr 2020 12:51:13 GMT  49f  {"data":[{"alarmDateString":"2020-04-08 20:49:55.0","alarmGrade":"0","alarmGradeName":"","alarmPicture":"{ \"ScenePicPath\" : \"http://10.35.120.145:50000/cfae2171-3da5-11e9-a835-b02628181696/20200408/1/dsf\_b3a3995f-7993-11ea-ae50-b02628181696\_54921101\_55505200.jpg\"}","alarmStat":"1","alarmType":"302","alarmTypeName":"............","channelName":"171.5.37.9\_1","deviceName":"171.5.37.9","handleDateString":"2000-01-01 00:00:00.0","handleStat":"5","handleStatName":".........","id":144349,"unitType":1},{"alarmDateString":"2020-04-08 20:49:30.0","alarmGrade":"0","alarmGradeName":"","alarmPicture":"{ \"ScenePicPath\" : \"http://10.35.120.145:50000/cfae2171-3da5-11e9-a835-b02628181696/20200408/1/dsf\_b3a3995f-7993-11ea-ae50-b02628181696\_54356187\_54921101.jpg\"}","alarmStat":"1","alarmType":"302","alarmTypeName":"............","channelName":"171.5.37.9\_1","deviceName":"171.5.37.9","handleDateString":"2000-01-01 00:00:00.0","handleStat":"5","handleStatName":".........","id":144348,"unitType":1}],"pagination":{"currentPage":1,"pageSize":2,"pagesCount":0,"recordsCount":0},"param":{"alarmCategory":"device","deviceCode":"1000018","isForExport":true},"result":{"code":"success"}}  0 |

**抓包截图(不含分页):**

|  |
| --- |
| POST /admin/rest/api?userId=1&userName=system&token=9e549052d8247bb6103067637ac3b1e2 HTTP/1.1  Host: 10.35.120.145:8314  Connection: keep-alive  Content-Length: 206  Cache-Control: no-cache  Origin: chrome-extension://kcchblbcjgmlepphcapghahekamiipea  User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/41.0.2272.89 Safari/537.36  Content-Type: application/json  Accept: \*/\*  Accept-Encoding: gzip, deflate  Accept-Language: zh-CN,zh;q=0.8  Cookie: JSESSIONID=27360E8391B98A485D3987AA02A5F701; curMenuUrl=deviceAlarm\_init.action; curMenuCode=007008; random=51586913E6F887C4A25C3A75750B7CD7; JSESSIONID=9FB315DA05F5C4F5ABF8EE5273BEE916; currentToken=9e549052d8247bb6103067637ac3b1e2  {  "interfaceId": "admin\_008\_001",  "jsonParam": "{\"param\":{\"alarmCategory\":\"device\",\"deviceCode\":\"1000018\",\"minAlarmDate\":\"2020-04-08 20:48:01\",\"maxAlarmDate\":\"2020-04-08 20:48:42\"}}"  }  HTTP/1.1 200 OK  Server: Apache-Coyote/1.1  Cache-Control: no-cache, no-store, must-revalidate  Pragma: no-cache  Expires: Thu, 01 Jan 1970 00:00:00 GMT  Content-Type: application/json;charset=UTF-8  Transfer-Encoding: chunked  Date: Wed, 08 Apr 2020 12:51:18 GMT  883  {"data":[{"alarmDateString":"2020-04-08 20:48:40.0","alarmGrade":"0","alarmGradeName":"","alarmPicture":"{ \"ScenePicPath\" : \"http://10.35.120.145:50000/cfae2171-3da5-11e9-a835-b02628181696/20200408/1/dsf\_b3a3995f-7993-11ea-ae50-b02628181696\_53223104\_53792944.jpg\"}","alarmStat":"1","alarmType":"302","alarmTypeName":"............","channelName":"171.5.37.9\_1","deviceName":"171.5.37.9","handleDateString":"2000-01-01 00:00:00.0","handleStat":"5","handleStatName":".........","id":144322,"unitType":1},{"alarmDateString":"2020-04-08 20:48:29.0","alarmGrade":"0","alarmGradeName":"","alarmPicture":"{ \"ScenePicPath\" : \"http://10.35.120.145:50000/cfae2171-3da5-11e9-a835-b02628181696/20200408/1/dsf\_b3a3995f-7993-11ea-ae50-b02628181696\_52651089\_53223104.jpg\"}","alarmStat":"1","alarmType":"302","alarmTypeName":"............","channelName":"171.5.37.9\_1","deviceName":"171.5.37.9","handleDateString":"2000-01-01 00:00:00.0","handleStat":"5","handleStatName":".........","id":144321,"unitType":1},{"alarmDateString":"2020-04-08 20:48:17.0","alarmGrade":"0","alarmGradeName":"","alarmPicture":"{ \"ScenePicPath\" : \"http://10.35.120.145:50000/cfae2171-3da5-11e9-a835-b02628181696/20200408/1/dsf\_b3a3995f-7993-11ea-ae50-b02628181696\_51504859\_52077728.jpg\"}","alarmStat":"1","alarmType":"302","alarmTypeName":"............","channelName":"171.5.37.9\_1","deviceName":"171.5.37.9","handleDateString":"2000-01-01 00:00:00.0","handleStat":"5","handleStatName":".........","id":144320,"unitType":1},{"alarmDateString":"2020-04-08 20:48:02.0","alarmGrade":"0","alarmGradeName":"","alarmPicture":"{ \"ScenePicPath\" : \"http://10.35.120.145:50000/cfae2171-3da5-11e9-a835-b02628181696/20200408/1/dsf\_b3a3995f-7993-11ea-ae50-b02628181696\_50912934\_51504859.jpg\"}","alarmStat":"1","alarmType":"302","alarmTypeName":"............","channelName":"171.5.37.9\_1","deviceName":"171.5.37.9","handleDateString":"2000-01-01 00:00:00.0","handleStat":"5","handleStatName":".........","id":144319,"unitType":1}],"param":{"alarmCategory":"device","deviceCode":"1000018","isForExport":true,"maxAlarmDate":"Apr 8, 2020 8:48:42 PM","minAlarmDate":"Apr 8, 2020 8:48:01 PM"},"result":{"code":"success"}}  0 |

附录

## 报警类型

|  |  |
| --- | --- |
| 编码 | 说明 |
| 5 | 硬盘满 |
| 2 | 外部报警 |
| 1 | 视频丢失 |
| 41 | 胁迫报警 |
| 302 | 绊线入侵 |
| 6 | 硬盘故障 |
| 3 | 移动侦测 |
| 81 | 报警主机报警 |
| 42 | 合法密码开门 |
| 4 | 视频遮挡 |
| 82 | 火警 |
| 43 | 非法密码开门 |
| 303 | 区域入侵 |
| 83 | 防区失效 |
| 28 | 远程外部通道报警 |
| 304 | 贴条检测 |
| 4405 | 设备码流获取失败 |
| 84 | 低电量 |
| 45 | 合法指纹开门 |
| 305 | 物品遗留 |
| 85 | 市电断开 |
| 46 | 非法指纹开门 |
| 306 | 滞留检测 |
| 307 | 徘徊检测 |
| 51 | 合法刷卡 |
| 48 | 远程开门(室内机/平台) |
| 308 | 物品保全 |
| 52 | 非法刷卡 |
| 49 | 开锁按钮开门 |
| 309 | 快速移动 |
| 53 | 门磁报警 |
| 311 | 聚集检测 |
| 54 | 异常开门 |
| 55 | 异常关门 |
| 56 | 正常关门 |
| 57 | 正常开门 |
| 66 | 超时等级一 |
| 67 | 超时等级二 |
| 63 | 超时等级三 |
| 64 | 超时等级四 |
| 65 | 超时等级五 |
| 319 | 视频异常 |
| 4326 | 钥匙报警 |
| 4329 | 胁迫报警 |
| 14119 | 水浸防短告警 |
| 14100 | 液体溶度过低告警 |
| 14110 | 噪音过大告警 |
| 12305 | 主电欠压 |
| 14131 | 紧急按钮防短告警 |
| 14112 | PM2.5过高告警 |
| 14118 | 水浸防拆告警 |
| 14099 | 液体溶度过高告警 |
| 14094 | 风速过快告警 |
| 12304 | 备电故障 |
| 14130 | 紧急按钮防拆告警 |
| 14109 | 工作异常告警 |
| 14085 | 玻璃破碎告警 |
| 14000 | 设备离线告警 |
| 12303 | 主电故障 |
| 14129 | 玻璃破碎探测器防短告警 |
| 14108 | 设备离线告警 |
| 14076 | 烟雾告警 |
| 12313 | 探测器故障 |
| 12302 | 设备故障报警 |
| 14128 | 玻璃破碎探测器防拆告警 |
| 14107 | 设备离线告警 |
| 14082 | 湿度过低告警 |
| 12312 | 水压过高 |
| 14127 | 门磁防短告警 |
| 12301 | 火警报警 |
| 14106 | 设备离线告警 |
| 14081 | 湿度过高告警 |
| 12311 | 水压过低 |
| 14137 | 停电监测器防短告警 |
| 14126 | 门磁防拆告警 |
| 14105 | 设备离线告警 |
| 14080 | 温度过低告警 |
| 12310 | 温度报警 |
| 14136 | 停电监测器防拆告警 |
| 14125 | 震动防短告警 |
| 14104 | 设备离线告警 |
| 12309 | 手动报警 |
| 14135 | 周界防短告警 |
| 14079 | 温度超高告警 |
| 14124 | 震动防拆告警 |
| 14103 | 设备离线告警 |
| 12308 | 主机离线 |
| 14134 | 周界防拆告警 |
| 14078 | 温度过高告警 |
| 14121 | 烟感防短告警 |
| 14102 | 设备离线告警 |
| 12307 | 总线故障 |
| 14133 | 人体探测防短告警 |
| 14117 | PM100过高告警 |
| 14120 | 烟感防拆告警 |
| 14101 | 设备离线告警 |
| 12306 | 备电欠压 |
| 14132 | 人体探测防拆告警 |
| 14113 | PM10过高告警 |
| 326 | 人脸检测 |
| 574 | 异常奔跑 |
| 61 | 合法人脸刷门 |
| 575 | 逆行检测 |
| 62 | 非法人脸刷门 |
| 577 | 物品搬移 |
| 1421 | RFID有源合法 |
| 578 | 非法停车 |
| 1423 | RFID有源非法 |
| 564 | 违章停车 |
| 586 | 起身检测 |
| 587 | 穿越围栏 |
| 579 | 人脸识别 |
| 16 | 设备断线 |
| 13 | 通道断线 |
| 328 | 陌生人脸报警 |
| 833 | 人体特征 |
| 323 | 车体特征 |
| 160 | VTT紧急报警 |
| 1909 | 音频异常 |
| 314 | 斗殴检测 |
| 315 | 打架斗殴 |
| 316 | 人数统计上限 |
| 596 | 攀高检测 |
| 597 | 离岗检测 |
| 647 | SD卡异常 |
| 665 | 场景变更 |
| 826 | 区域人数超限 |
| 856 | 人群密度超限 |
| 867 | 区域内剧烈运动 |
| 868 | 区域内尾随 |
| 869 | 区域内跌倒 |
| 870 | 区域内人数超限 |
| 873 | 扶梯异常 |
| 881 | 火警事件 |
| 882 | 商铺占道经营事件(出店经营) |
| 926 | 非机动车报警 |
| 1420 | 超时门未关 |
| 1430 | 非法闯入 |
| 1433 | 黑名单报警 |
| 1434 | 合法二维码开门 |
| 1435 | 非法二维码开门 |
| 1436 | 人证合法开门 |
| 1437 | 人证非法开门 |
| 1438 | 人证和身份证非法开门 |
| 1439 | 人证和身份证合法开门 |
| 1443 | 外部报警 |
| 1448 | RFID感应报警 |
| 1449 | RFID非法感应报警 |
| 1450 | RFID外部报警(按键报警) |
| 1454 | RFID非法位置报警 |
| 1455 | 先刷卡后密码合法开门 |
| 1456 | 先刷卡后密码非法开门 |
| 1461 | 刷卡+指纹组合合法开门 |
| 1462 | 刷卡+指纹组合非法开门 |
| 1463 | 多人合法开门 |
| 1464 | 多人非法开门 |
| 1467 | 人员编号+密码合法开门 |
| 1468 | 人员编号+密码非法开门 |
| 1469 | 人脸+密码合法开门 |
| 1470 | 人脸+密码非法开门 |
| 1471 | 指纹+密码合法开门 |
| 1472 | 指纹+密码非法开门 |
| 1473 | 指纹+人脸合法开门 |
| 1474 | 指纹+人脸非法开门 |
| 1475 | 刷卡+人脸合法开门 |
| 1476 | 刷卡+人脸非法开门 |
| 1487 | 指纹+人脸+密码合法开门 |
| 1488 | 指纹+人脸+密码非法开门 |
| 1489 | 刷卡+人脸+密码合法开门 |
| 1490 | 刷卡+人脸+密码非法开门 |
| 1491 | 刷卡+指纹+密码合法开门 |
| 1492 | 刷卡+指纹+密码非法开门 |
| 1493 | 卡+指纹+人脸组合合法开门 |
| 1494 | 卡+指纹+人脸组合非法开门 |
| 1622 | 非法访问 |
| 1907 | 设备发起对讲事件 |
| 1916 | 无硬盘 |
| 1917 | 双控版本异常 |
| 1918 | 主备切换事件 |
| 1919 | RAID失效 |
| 1920 | RAID降级 |
| 1921 | 录像丢帧 |
|  | 虚焦侦测 |
| 2405 | 人脸黑名单报警 |
| 4205 | 非内部车 |
| 4300 | 门磁 |
| 4301 | 被动红外 |
| 4302 | 煤气 |
| 4303 | 烟感 |
| 4304 | 水感 |
| 4321 | 紧急按钮 |
| 4322 | 盗警 |
| 4323 | 周界 |
| 4324 | 防拆 |
| 4327 | 门锁低电压报警 |
| 4328 | 门锁防拆报警 |
| 4334 | 网关防拆 |
| 4501 | 出入口黑名单 |
| 4503 | 卡箱少卡 |
| 4504 | 卡箱无卡 |
| 4505 | 卡箱卡满 |
| 4506 | 车检器掉线 |
| 4507 | 地感线圈掉线 |
| 4508 | LED掉线 |
| 4509 | 面板刷卡板掉线 |
| 4510 | 发卡刷卡板掉线 |
| 4511 | 对讲事件 |
| 4603 | 卡+指纹+人脸+密码组合合法开门 |
| 4604 | 卡+指纹+人脸+密码组合非法开门 |
| 4617 | 宠物异常通行 |
| 4618 | 电动车进出单元报警 |
| 4619 | 电动车区域禁停报警 |
| 4620 | 人员异常出入预警 |
| 4623 | 恶意开门事件 |
| 4624 | 人员未出入预警 |
| 4626 | 人脸安全帽合法开门 |
| 4627 | 人脸安全帽非法开门 |
| 5006 | 人群密度上限 |
| 5104 | 客流峰值报警 |
| 5106 | 区域人数上限 |
| 5120 | 热成像测温点温度异常 |
| 5122 | 热成像火情报警信息上报 |
| 5123 | 热成像热点异常报警 |
| 5124 | 热成像冷点异常报警 |
| 5125 | 热成像规则间温差异常报警 |
| 5402 | 报警柱巡检报警 |
| 5403 | 报警柱超速报警 |
| 12402 | 无人报警 |
| 12403 | 超过上限报警 |
| 12404 | 少于下限报警 |
| 12405 | 计划不符报警 |
| 12705 | 单元门未关 |
| 12706 | 低电压 |
| 12707 | 井盖移动 |
| 12708 | 垃圾满 |
| 12709 | 设备故障 |
| 12710 | 污水超限 |
| 12711 | 温湿度过高 |
| 12712 | 温湿度过低 |
| 12713 | 阀门故障 |
| 15590 | 流动摊贩事件(移动摊贩) |
| 15591 | 城市机动车违停事件(机动车违停) |
| 15592 | 城市非机动车违停事件(非机动车违停) |
| 15602 | 打电话检测报警 |
| 15603 | 吸烟检测报警 |
| 5126 | 热成像烟雾报警 |
| 313 | 可见光烟雾报警 |
| 15610 | 排队滞留时间报警事件 |
| 15611 | 排队人数异常报警事件 |
| 15646 | 动物检测事件 |
| 15649 | 智慧养殖检测事件 |
| 16992 | 猪体温检测事件 |
| 19005 | 磁盘检测 |
| 19006 | 共享服务 |
| 19007 | 存储池异常 |
| 584 | 视频移动侦测 |
| 585 | 智能外部报警 |

## 处理状态

|  |  |
| --- | --- |
| 编码 | 说明 |
| 1 | 处理中 |
| 2 | 已解决 |
| 3 | 误报 |
| 4 | 忽略 |
| 5 | 未解决 |

## 报警状态

|  |  |
| --- | --- |
| 编码 | 说明 |
| 1 | 报警产生 |
| 2 | 报警消失 |

## 单元类型

|  |  |
| --- | --- |
| 编码 | 说明 |
| 1 | 编码单元(存放视频通道，其通道叫编码通道) |
| 2 | 解码单元(存放解码通道，其通道叫解码通道) |
| 3 | 报警输入单元(存放报警输入通道，其通道叫报警输入通道) |
| 4 | 报警输出单元(存放报警输出通道，其通道叫报警输出通道) |