京东智能家居云Rest Api说明(仅供参考)

20140313

## 术语说明

### Feeds, Datastreams and Datapoints

|  |  |
| --- | --- |
| 资源 | 解释 |
| Feed | Feed是由一系列的DataStreams组成，相当于设备在该平台的一个绑定数据源，Feed的元数据可以选择性的设置地理位置，标签。无论设备是物理还是虚拟、固定或者移动、户外或者屋内，每个设备有且只有一个Feed与之对应。 |
| Datastream | DataStream是一个双向数据通道，它用来交换平台与授权设备、app或者service之间的数据。每个DataStream代表一个特定的属性，该属性值作为一系列的DataPoints存储在时间序列数据库里面。设备可以使用data stream来存储传感器上传的数据也能够监听到app向data stream发送的命令。每个data stream在同一个feed里必须有一个唯一的id. |
| Datapoint | DataPoint是DataStream在某个特定时间点上的值。它只是一个键值对，key是时间戳，value是data stream的值。 |

### Products产品属性列表

|  |  |  |  |
| --- | --- | --- | --- |
| 字段 | 描述 | 不为空 | 可设置 |
| name | 产品名称 | 是 | 是 |
| description | 产品描述 | 否 | 是 |
| product\_id | 产品ID号，如 REST API请求URL中产品ID | 是 | 否 |
| secret | 本产品的所有设备的密钥，固定在每个硬件设备里，是个16进制的字符串 | 是 | 否 |

### Devices设备属性列表

|  |  |  |  |
| --- | --- | --- | --- |
| 字段 | 描述 | 不为空 | 可设置 |
| Serial number | 设备序列号。唯一ID，它被编程到设备中，或者它可以是MAC地址，如果该设备具有一个以太网或WiFi连接。可以是字母数字字符组成的任意字符串，并加号（+），减符号（ - ），下划线（\_），冒号（:)和逗号（，）。 | 是 | 是 |
| activated\_at | 设备被激活的时间，ISO8601格式设置 | 是 | 否 |
| created\_at | 创建设备数据记录时间。ISO8601格式设置 | 是 | 否 |
| Feed\_id | 设备一一关联的Feed id，外键ID | 是 | 否 |
| api\_key | 设备的用于feed的 API key值，用于设备发送数据 | 是 | 否 |
| activation\_code | 设备激活码，激活后产生API KEY，云端才会接收设备的数据 | 是 | 否 |

### Keys（restapi值）属性列表

|  |  |  |  |
| --- | --- | --- | --- |
| 字段 | 描述 | 不为空 | 用户可设置 |
| api\_key | 客户端APP调用REST API的密钥令牌 | 是 | 否 |
| label | Api Key值对应的接口标签 | 是 | 是 |
| expires\_at | 密钥key值的有效截止日期 | 否 | 是 |
| private\_access | 是否可以访问属于该用户的私人资源的标志 | 否 | 是 |
| permissions | 控制访问级别权限对象集合 | 是 | 是 |

### Key permissions（restapi方法访问权限）表

|  |  |  |  |
| --- | --- | --- | --- |
| 字段 | 描述 | 不为空 | 用户可设置 |
| access\_methods | 可以操作的方法，有get, put, post, delete. | 是 | 是 |
| source\_ip | 限制访问的IP地址 | 否 | 是 |
| referer | 请求域，URL请求来源 | 否 | 是 |
| minimum\_interval | 允许访问的数据不能超过这个最小间隔时间，比如是2小时，那就只能对2小时前到现在的这部分数据进行操作 | 否 | 是 |
| label | 权限对象集合的标签说明 | 否 | 是 |
| resources | 可访问资源对象的集合。资源对象会限制访问特定的feed 或者数据流 | 否 | 是 |

### key resource可访问资源属性列表

|  |  |  |  |
| --- | --- | --- | --- |
| 字段 | 描述 | 不为空 | 用户可设置 |
| Feed\_id | 关联的特定feed id | 当有特定的数据流时，不能为空，否则可以为空 | 是 |
| Datastream\_id | 特定feed id关联的数据流ID | 否 | 是 |

## REST-API列表

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 操作 | 操作  方法 | | 数据格式 | 调用URL | 请求  方法 | 返回值 |
| 创建产品 | Create | | json | https://api.smart.jcloud.com/v1/products | POST | 产品的URL地址 |
| 更新产品信息 | Update | | json | https://api.smart.jcloud.com/v1/products/product\_id | PUT | HTTP headers only |
| 查询产品列表 | List All | | json | https://api.smart.jcloud.com/v1/products | GET | 产品列表集合 |
| 获取产品数据信息 | Read | | json | https://api.smart.jcloud.com/v1/products/product\_id | GET | 产品具体信息 |
| 删除产品记录 | Delete | | n/a | https://api.smart.jcloud.com/v1/products/ product\_id | DELETE | 请求响应头 |
| 创建  设备 | Create | | json | https://api.smart.jcloud.com/v1/products/product\_id/devices | POST | 设备的URL地址 |
| 获取设备信息 | Read | | json | https://api.smart.jcloud.com/v1/products/product\_id/devices/serial\_number | GET | 单个设备的数据信息 |
| 更新设备信息 | Update | | json | https://api.smart.jcloud.com/v1/products/product\_id/devices/serial\_number | PUT | 请求响应头 |
| 删除设备信息 | Delete | | n/a | https://api.smart.jcloud.com/v1/products/product\_id/devices/serial\_number | DELETE | 请求响应头 |
| 获取产品下设备列表 | List All | | json | https://api.smart.jcloud.com/v1/products/ product\_id/devices | GET | 设备列表信息 |
| 激活  设备 | Activate | | json, csv | https://api.smart.jcloud.com/v1/devices/activation\_code/activate | GET | 请求响应头 |
| 创建key  密钥 | Create | | json, xml | https://api.smart.jcloud.com/v1/keys | POST | 请求响应头 |
| 获取单个key  密钥 | Read | | json, xml | https://api.smart.jcloud.com/v1/keys/key\_id | GET | json, xml格式返回key值信息 |
| 删除key  密钥 | Delete | | n/a | https://api.smart.jcloud.com/v1/keys/key\_id | DELETE | 请求响应头 |
| 获取key  列表 | List All | | json, xml | https://api.smart.jcloud.com/v1/keys | GET | json, xml |
| Feeds | 读取 | | json, xml, csv | https://api.smart.jcloud.com/v1/feeds/ | GET | 包括当前所有的DataStreams的状态值和元数据 |
| Feeds | 读取 (range) | | json, xml, csv | https://api.smart.jcloud.com/v1/feeds/  feed\_id?range | GET | 返回所有的DataStream，每个DataStream包括特定历史时间范围内的值 |
| Feeds | 更新 | | json, xml, csv | https://api.smart.jcloud.com/v1/feeds/feed\_id | PUT | HTTP headers only |
| Feeds | 列表 | | json, xml, csv | https://api.smart.jcloud.com/v1/feeds | GET | 所有可用的 Feeds |
| Datastreams | 创建 | | json, xml, csv | https://api.smart.jcloud.com/v1/feeds/feed\_id/  datastreams | POST | n/a |
| Datastreams | 读取 | | json, xml, csv, png | https://api.smart.jcloud.com/v1/feeds/feed\_id/  datastreams/datastream\_id | GET | 读取指定的Datastream当前的状态. |
| Datastreams | 读取 (range) | | json, xml, csv, png | https://api.smart.jcloud.com/v1/feeds/feed\_id/  datastreams/datastream\_id?range | GET | 读取一些列指定datastream指定时间范围内的数据 |
| Datastreams | 更新 | | json, xml, csv | https://api.smart.jcloud.com/v1/feeds/feed\_id/  datastreams/datastream\_id | PUT | HTTP Headers only |
| Datastreams | 删除 | | json, xml, csv | https://api.smart.jcloud.com/v1/feeds/feed\_id/  datastreams/datastream\_id | DELETE | HTTP Headers only |
| Datastreams | 列表 | |  | https://api.smart.jcloud.com/v1/feeds/feed\_id | GET | 读取所有的data stream列表 |
| Datapoints | 删除 (single) | | n/a | https://api.smart.jcloud.com/v1/feeds/feed\_id/  datastreams/datastream\_id/datapoints/  timestamp | DELETE | HTTP Headers only |
| Datapoints | 删除 (range) | | n/a | https://api.smart.jcloud.com/v1/feeds/feed\_id/  datastreams/datastream\_id/  datapoints?range | DELETE | HTTP Headers only |
| 创建触发器 | Create | | json, xml | https://api.smart.jcloud.com/v1/triggers/ | POST | 请求响应头 |
| 获取触发器信息 | Read | | json, xml | https://api.smart.jcloud.com/v1/triggers/trigger\_id | GET | 获取单个触发器具体信息 |
| 更新触发器信息 | Update | | json, xml | https://api.smart.jcloud.com/v1/triggers/trigger\_id | PUT | 请求响应头 |
| 删除触发器 | Delete | | n/a | https://api.smart.jcloud.com/v1/triggers/trigger\_id | DELETE | 请求响应头 |
| 触发器信息列表 | List All | | json, xml | https://api.smart.jcloud.com/v1/triggers/ | GET | 获取触发器信息列表 |
|  |  |  | |  |  |  |

## 创建产品

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | 请求方法 | POST | | 请求URL | https://api.smart.jcloud.com | | Api端点 | /v1/products | | 请求头 | X-ApiKey API\_KEY\_HERE | | 请求参数 | {"product":{  "description":"this is a device on 京东智能云",  "name":"API Example",  "feed\_defaults":{  "title":"Demo Unit",  "tags":["device:type=API Example"],  "private":"true",  "datastreams":[{"id":"channel1"},{"id":"demo"}]}, "user":"USERNAME"  }  } | | 返回状态码 | 201 CREATED | | Location地址 | https://api.smart.jcloud.com/v1/products/NEW\_PRODUCT\_ID | | 返回实体 | 空 | |

## 更新产品信息

|  |  |
| --- | --- |
| 请求方法 | PUT |
| 请求URL | https://api.smart.jcloud.com |
| Api端点 | /v1/products/PRODUCT\_ID |
| 请求头 | X-ApiKey API\_KEY\_HERE |
| 请求参数 | {"product":{  "description": "this is a device",  "name":"API Example UPDATE",  "feed\_defaults":{  "title":"Demo Unitddd",  "tags":["device:type=API Example"],  "private":"true",  "datastreams":[{"id":"channel1"},{"id":"demo"}]}  }  } |
| 返回状态码 | 200 OK |
| Location地址 | 无 |
| 返回实体 | 空 |

## 删除产品信息

|  |  |
| --- | --- |
| 请求方法 | DELETE |
| 请求URL | https://api.smart.jcloud.com |
| Api端点 | /v1/products/PRODUCT\_ID |
| 请求头 | X-ApiKey API\_KEY\_HERE |
| 请求参数 | 无 |
| 返回状态码 | 200 OK |
| Location地址 | 无 |
| 返回实体 | 空 |

## 获取单个产品信息

|  |  |
| --- | --- |
| 请求方法 | GET |
| 请求URL | https://api.smart.jcloud.com |
| Api端点 | /v1/products/PRODUCT\_ID |
| 请求头 | X-ApiKey API\_KEY\_HERE |
| 请求参数 | 无 |
| 返回状态码 | 200  OK |
| Location地址 | 无 |
|  | 无{ "product": {  "description": "this is a device ",  "name": "API Example",  "product\_id": "h5wT2IlOMrd09r\_qd1jm", "secret":"836842cd3b57dce99afef7805c078a0821a88725",  "state": "deploy",  "devices\_count": 1,  "activated\_devices\_count": 0,  "feed\_defaults": {  "title": "Demo Unit",  "tags": [  "device:type=API Example"  ],  "private": "true",  "datastreams": [  {  "id": "channel1"  },  {  "id": "demo"  }  ]  返回实体 }  }  } |

## 获取产品信息列表

|  |  |
| --- | --- |
| 请求方法 | GET |
| 请求URL | https://api.smart.jcloud.com |
| Api端点 | /v1/products |
| 请求头 | X-ApiKey API\_KEY\_HERE |
| 请求参数 | 无 |
| 返回状态码 | 200 OK |
| Location地址 | 无 |
| 返回实体 | { "totalResults": 2,  "products": [  {  "description": "",  "name": "AppImpTest",  "product\_id": "\_cDD-xSpd4Sga4qkfFn8",  "secret": "312f80a68b459f1c8ea02cde727de421ae58b828",  "state": "develop",  "devices\_count": 1,  "activated\_devices\_count": 1,  "feed\_defaults": {  "title": "AppImpTest",  "description": "testing devices",  "private": "false"  },  "user": "USERNAME"  },  { "description": "this product is for testing", "name": "AppImpTestProduct",  "product\_id": "sUnhxcXc2umoOeXTRM7R",  "secret": "ee2ab38f9b85b6b2c1b150b1d416b3fa2683dc72",  "state": "deploy",  "devices\_count": 4,  "activated\_devices\_count": 1,  "feed\_defaults": {  "title": "AppImpTest",  "description": "testing devices",  "tags": [  "device:type=AppImpTest"  ],  "private": "false",  "datastreams": [  { "id": "cycles" }，  { "id": "onHand" }  ]  },  "user": "USERNAME"  }    ]  } |

## 增加设备(导入序列号)

|  |  |
| --- | --- |
| 请求方法 | POST |
| 请求URL | https://api.smart.jcloud.com |
| Api端点 | /v1/products/PRODUCT\_ID\_HERE/devices |
| 请求头 | X-ApiKey API\_KEY\_HERE |
| 请求参数 | {  "devices": [  {"serial": "abc123"},  {"serial": "321cba"}  ]  } |
| 返回状态码 | 201 CREATED |
| Locatio地址 | https://api.smart.jcloud.com/v1/products/h5wT2IlOMrd09r\_qd1jm/devices |
| 返回实体 | 无 |

## 激活产品设备

|  |  |
| --- | --- |
| 请求方法 | GET |
| 请求URL | https://api.smart.jcloud.com |
| Api端点 | /v1/devices/ACTIVATION\_CODE/activate |
| 请求头 | X-ApiKey API\_KEY\_HERE |
| 请求参数 | 无 |
| 返回状态码 | 200 OK |
| Location地址 | https://api.smart.jcloud.com/v1/products/h5wT2IlOMrd09r\_qd1jm/devices |
| 返回实体 | {  "apikey": "API\_KEY\_HERE",  "feed\_id": FEED\_ID\_HERE,  "datastreams": [  "temperature"  ]  } |

## 获取设备信息

|  |  |
| --- | --- |
| 请求方法 | GET |
| 请求URL | https://api.smart.jcloud.com |
| Api端点 | /v1/products/PRODUCT\_ID/devices/SERIAL\_NUMBER |
| 请求头 | X-ApiKey API\_KEY\_HERE |
| 请求参数 | 无 |
| 返回状态码 | 200 OK |
| Location地址 | 无 |
| 返回实体 | { "device": {  "serial": "abc123",  "activation\_code": "ACTIVATION\_CODE",  "created\_at": "2013-05-05T22:25:11Z",  "activated\_at": null,  "feed\_id": DEVICE\_FEED\_ID  }  } |

## 更新设备信息

目前只能修改序列号serial

|  |  |
| --- | --- |
| 请求方法 | PUT |
| 请求URL | https://api.smart.jcloud.com |
| Api端点 | /v1/products/PRODUCT\_ID/devices/SERIAL\_NUMBER |
| 请求头 | X-ApiKey API\_KEY\_HERE |
| 请求参数 | {  "device": {  "serial":"abc1234"  }  } |
| 返回状态码 | 200 OK |
| Locatio地址 | 无 |
| 返回实体 | 无 |

## 删除设备信息

|  |  |
| --- | --- |
| 请求方法 | DELETE |
| 请求URL | https://api.smart.jcloud.com |
| Api端点 | /v1/products/PRODUCT\_ID/devices/SERIAL\_NUMBER |
| 请求头 | X-ApiKey API\_KEY\_HERE |
| 请求参数 | 无 |
| 返回状态码 | 200 OK |
| Location地址 | 无 |
| 返回实体 | 无 |

## 获取设备列表信息

|  |  |
| --- | --- |
| 请求方法 | GET |
| 请求URL | https://api.smart.jcloud.com |
| Api端点 | /v1/products/PRODUCT\_ID/devices |
| 请求头 | X-ApiKey API\_KEY\_HERE |
| 请求参数 | Page 请求起始页  Per\_page 每页显示条数  Serial 序列号参数模糊匹配  Activated 设备是否被激活 |
| 返回状态码 | 200 OK |
| Location地址 | 无 |
| 返回实体 | {  "totalResults": 2,  "itemsPerPage": 30,  "startIndex": 1,  "devices": [  {  "serial": "abc321",  "activation\_code": "ACTIVATION\_CODE",  "created\_at": "2013-05-05T18:11:42Z",  "activated\_at": null,  "feed\_id": DEVICE\_FEED\_ID  }，  {  "serial": "789",  "activation\_code": "ad30b1629498084295c3a27f514129476bfa2e6b",  "created\_at": "2013-05-05T20:56:02Z",  "activated\_at": null,  "feed\_id": 129697  }  ]  } |

## API调用权限的密钥值的创建

|  |  |
| --- | --- |
| 请求方法 | POST |
| 请求URL | https://api.smart.jcloud.com |
| Api端点 | /v1/keys |
| 请求头 | X-ApiKey API\_KEY\_HERE |
| 请求参数 | {  "key":{  "label":"stupid key",  "private\_access": true,  "permissions":[  {  "access\_methods":["put"],  "source\_ip": "128.44.98.129",  "resources": [  {  "feed\_id": 504  }  ]  },  {  "access\_methods": ["get"]  }  ]  }  } |
| 返回状态码 | 201 CREATED |
| Locatio地址 | https://api.smart.jcloud.com/v1/keys/YOUR\_NEW\_KEY |
| 返回实体 | 无 |

## API调用权限密钥值的获取

|  |  |
| --- | --- |
| 请求方法 | GET |
| 请求URL | https://api.smart.jcloud.com |
| Api端点 | /v1/keys/KEY |
| 请求头 | X-ApiKey API\_KEY\_HERE |
| 请求参数 | 无 |
| 返回状态码 | 200 OK |
| Locatio地址 | 无 |
| 返回实体 | {  "key": {  "api\_key": "YMlMd2TsjWZLTY3w9MHW0JydaWCSAKxXVW00SFg3WW1raz0g",  "label": "API TEST",  "private\_access": true,  "permissions": [  {  "access\_methods": [  "get",  "put",  "post",  "delete"  ]  }  ]  }  } |

## API调用权限密钥值的更新

|  |  |
| --- | --- |
| 请求方法 | PUT |
| 请求URL | https://api.smart.jcloud.com |
| Api端点 | /v1/keys/KEY |
| 请求头 | X-ApiKey API\_KEY\_HERE |
| 请求参数 | {  "key":{  "label":"sharing key",  "private\_access": true,  "expires\_at": "2013-03-27T01:23:45.123456Z",  "permissions":[  {  "access\_methods":["put"],  "source\_ip": "128.44.98.129",  "referer": "my-domain.com",  "resources": [  {  "feed\_id": 504  }  ]  },  {  "access\_methods": ["get"]  }  ]  }  } |
| 返回状态码 | 200 OK |
| Location地址 | 无 |
| 返回实体 | 无 |

## 删除API调用权限key密钥信息

|  |  |
| --- | --- |
| 请求方法 | DELETE |
| 请求URL | https://api.smart.jcloud.com |
| Api端点 | /v1/keys/KEY\_TO\_DELETE |
| 请求头 | X-ApiKey API\_KEY\_HERE |
| 请求参数 | 无 |
| 返回状态码 | 200 OK |
| Locatio地址 | 无 |
| 返回实体 | 无 |

24.查询API调用权限key密钥信息列表

|  |  |
| --- | --- |
| 请求方法 | GET |
| 请求URL | https://api.smart.jcloud.com |
| Api端点 | /v1/keys |
| 请求头 | X-ApiKey API\_KEY\_HERE |
| 请求参数 | 无 |
| 返回状态码 | 200 OK |
| Locatio地址 | 无 |
| 返回实体 | {  "keys": [  {  "api\_key": "API\_KEY",  "label": "Electric Key",  "private\_access": true,  "permissions": [  {  "access\_methods": [  "get",  "put",  "post",  "delete"  ]  }  ]  }  {  "api\_key": "API\_KEY",  "label": "Another Key",  "private\_access": true,  "permissions": [  {  "access\_methods": [  "get",  "put",  "post",  "delete"  ]  }  ]  }  ]  } |

## 重置授权API key

|  |  |
| --- | --- |
| 请求方法 | POST |
| 请求URL | https://api.smart.jcloud.com |
| Api端点 | /v1/keys//regenerate |
| 请求头 | 无 |
| 请求参数 | 无 |
| 返回状态码 | 200 OK |
| Location地址 | https://api.smart.jcloud.com/v1/keys/1nAYR5W8jUqiZJXIMwu3923Qfuq\_lnFCDOKtf3kyw4 |
| 返回实体 | 无 |

## 查询所有Feed

|  |  |
| --- | --- |
| Example URL | https://api.smart.jcloud.com/v1/feeds/ |
| Formats | json, xml, csv |
| Methods | GET |

**普通查询参数**

|  |  |  |
| --- | --- | --- |
| 参数 | 描述 | 例子 |
| page | 起始页数 | https://api.smart.jcloud.com/v1/feeds?page=2 |
| per\_page | 每页数量 | https://api.smart.jcloud.com/v1/feeds?per\_page=5 |
| content | full:所有结果包括所有datastream数据  summary:只返回元数据 | https://api.smart.jcloud.com/v1/feeds?content=summary |
| q | 查询字符串 | https://api.smart.jcloud.com/v1/feeds?q=arduino |
| tag | 查询所有包含该tag的datastream | https://api.smart.jcloud.com/v1/feeds?tag=temperature |
| user | 查询指定user创建的feed | https://api.smart.jcloud.com/v1/feeds.xml?user=xxxx |
| units | 查询包含指定单位的feed | https://api.smart.jcloud.com/v1/feeds.xml?units=celsius |
| status | 状态过滤frozen,live,all | https://api.smart.jcloud.com/v1/feeds.xml?status=frozen |
| order | 结果排序 (‘created\_at’, ‘retrieved\_at’, or ‘relevance’). | https://api.smart.jcloud.com/v1/feeds.xml?order=created\_at |
| show\_user | 是否显示用户信息 | https://api.smart.jcloud.com/v1/feeds.xml?show\_user=true |

**基于位置信息查询参数**

|  |  |  |
| --- | --- | --- |
| 参数 | 描述 | 例子 |
| lat | 维度 | lat=51.5235375648154 |
| lon | 经度 | lon=-0.0807666778564453 |
| distance | 搜索半径 | distance=5.0 |
| distance\_units | 距离单位：miles or kms (default) | distance\_units=miles |

**示例：**

|  |  |
| --- | --- |
| 请求方法 | GET |
| 请求URL | https://api.smart.jcloud.com |
| Api端点 | /v1/feeds |
| 请求头 | X-ApiKey API\_KEY\_HERE |
| 请求参数 | |  | | --- | | 无 | |
| 返回状态码 | |  | | --- | | 200 OK | |
| 返回实体 | {  "totalResults":4299,  "results":[  {  "feed":"https://api.smart.jcloud.com/v1/feeds/5853.json",  "title":"bridge19",  "status":"live",  "version":"1.0.0",  "creator":"https://smart.jcloud.com/users/hdr",  "updated":"2010-06-08T09:30:21.472927Z",  "created":"2010-05-03T23:43:01.238734Z",  "location":{"domain":"physical"},  "tags":[  "Tag1",  "Tag2"  ],  "datastreams":[  {  "max\_value":"10000.0",  "tags":["humidity"],  "current\_value":"435",  "min\_value":"-10.0",  "at":"2010-07-02T10:21:57.101496Z",  "id":"0"  },  {  "max\_value":"10000.0",  "tags":["humidity"],  "current\_value":"herz",  "min\_value":"-10.0",  "at":"2010-07-02T10:21:57.176209Z",  "id":"1"  }  ]  }  {"feed": ...    ...}  ]  } |

## 查询单个Feed

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 读取单个feed当前时间的快照，返回当前feed所有的datastream current value和元数据 HTTP Request  |  |  | | --- | --- | | Example URL | https://api.smart.jcloud.com/v1/feeds/61916 | | Formats | json, xml, csv | | Methods | GET | |  |

|  |  |
| --- | --- |
| 请求方法 | GET |
| 请求URL | https://api.smart.jcloud.com |
| Api端点 | /v1/feeds/FEED\_ID\_HERE |
| 请求头 | X-ApiKey API\_KEY\_HERE |
| 请求参数 | |  | | --- | | 无 | |
| 返回状态码 | |  | | --- | | 200 OK | |
| 返回实体 | { "id": 121601,  "title": "Demo",  "private": "false",  "feed": "https://api.smart.jcloud.com/v1/feeds/121601.json",  "status": "frozen",  "updated": "2013-04-23T03:25:48.686462Z",  "created": "2013-03-29T15:50:43.398788Z",  "creator": https://smart.jcloud.com/users/calumbarnes",  "version": "1.0.0",  "datastreams": [  {  "id": "example",  "current\_value": "333",  "at": "2013-04-23T01:10:02.986063Z",  "max\_value": "333.0",  "min\_value": "333.0"},  {  "id": "key",  "current\_value": "value",  "at": "2013-04-23T00:40:34.032979Z"},  {  "id": "temp"  }],  "location": {  "domain": "physical"  }  } |

## 读取单个datastream

返回当前datastream快照，也可以返回特定datastream历史数据png图片

png 参数

|  |  |  |
| --- | --- | --- |
| 参数 | 描述 | 例子 |
| w | 宽度 | 600 |
| h | 高度 | 400 |
| c | 十六进制色彩值 | FFCC33 |
| t | 标题 | “My Favorite Graph” |
| l | 图例 | “Legend For My Graph” |
| s | 线条粗细 | 4 |
| b | 是否显示xy轴 | true / false |
| g | 是否显示网格 | true / false |
| scale | y轴缩放方式 | auto / Datastream / manual |
| min | 如果scale=manual y轴的最小值 | 0 |
| max | 如果scale=manual y轴的最大值 | 100 |
| timezone | 图像时区 | time zone +8 |

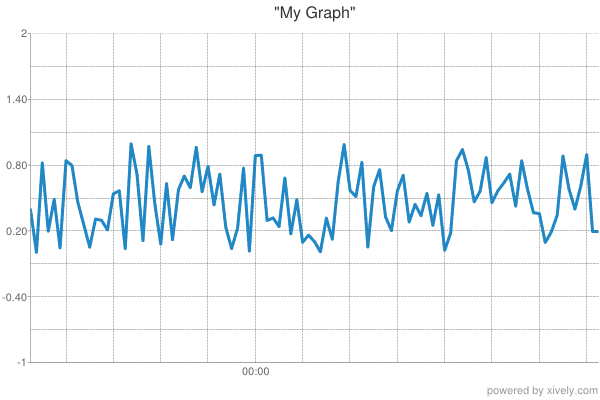
请求列表：

|  |  |
| --- | --- |
| 请求方法 | GET |
| 请求URL | https://api.smart.jcloud.com |
| Api端点 | /v1/feeds/FEED\_ID\_HERE/datastreams/DATASTREAM\_ID |
| 请求头 | X-ApiKey API\_KEY\_HERE |
| 请求参数 | 无 |
| 返回状态码 | |  | | --- | | 200 OK | |
| 返回实体 | {  "id":"example",  "current\_value":"500",  "at":"2013-05-06T00:30:45.694188Z",  "max\_value":"500.0",  "min\_value":"333.0",  "version":"1.0.0"  } |

**png request:**

https://api.smart.jcloud.com/v1/feeds/61916/datastreams/ random900.png?c=2188c5&g=true&t="My Graph"&b=true

**Png response:**



## 写多个Datapoints到单个Datastream

|  |  |
| --- | --- |
| 请求方法 | PUT |
| 请求URL | https://api.smart.jcloud.com |
| Api端点 | /v1/feeds/FEED\_ID\_HERE |
| 请求头 | X-ApiKey API\_KEY\_HERE |
| 请求参数 | 无 |
| 返回状态码 | |  | | --- | | 200 OK | |
| 返回实体 | {  "version":"1.0.0",  "datastreams" : [ {  "id" : "example",  "datapoints":[  {"at":"2013-04-22T00:35:43Z","value":"42"},  {"at":"2013-04-22T00:55:43Z","value":"84"},  {"at":"2013-04-22T01:15:43Z","value":"41"},  {"at":"2013-04-22T01:35:43Z","value":"83"}  ],  "current\_value" : "40"  }  ]  } |

## 对每一个DataStream写入不同的DataPoints

|  |  |
| --- | --- |
| 请求方法 | PUT |
| 请求URL | https://api.smart.jcloud.com |
| Api端点 | /v1/feeds/FEED\_ID\_HERE |
| 请求头 | X-ApiKey API\_KEY\_HERE |
| 请求参数 | 无 |
| 返回状态码 | |  | | --- | | 200 OK | |
| 返回实体 | {  "version":"1.0.0",  "datastreams" : [ {  "id" : "example",  "current\_value" : "333"  },  {  "id" : "key",  "current\_value" : "value"  },  {  "id" : "datastream",  "current\_value" : "1337"  }  ]  } |

## 删除指定DataPoint(永久删除)

|  |  |
| --- | --- |
| 请求方法 | DELETE |
| 请求URL | https://api.smart.jcloud.com |
| Api端点 | /v1/feeds/FEED\_ID/datastreams/DATASTREAM\_ID/datapoints/TIMESTAMP |
| 请求头 | X-ApiKey API\_KEY\_HERE |
| 请求参数 | 无 |
| 返回状态码 | |  | | --- | | 200 OK | |
| 返回实体 | 无 |

## 删除指定DataStream(永久删除)

请求Request

|  |  |
| --- | --- |
| 请求方法 | DELETE |
| 请求URL | https://api.smart.jcloud.com |
| Api端点 | /v1/feeds/FEED\_ID/datastreams/DATASTREAM\_ID |
| 请求头 | X-ApiKey API\_KEY\_HERE |
| 请求参数 | 无 |
| 返回状态码 | |  | | --- | | 200 OK | |
| 返回实体 | 无 |

## 删除多个DataPoints(永久删除)

指定删除时间戳范围

* **Start timestamp**: 开始时间戳，删除该时间以后所有的数据点.
* **End timestamp**: 结束时间戳，删除以前的数据点.
* **Start and end timestamp**: 删除开始和结束时间戳之间的数据点.
* **Start timestamp and duration**: 删除开始时间戳到(start timestamp + duration)之间数据点.
* **End timestamp and duration**: 删除所有从 (end timestamp - duration) 到结束时间戳之间的数据点

|  |  |
| --- | --- |
| 请求方法 | DELETE |
| 请求URL | https://api.smart.jcloud.com |
| Api端点 | /v1/feeds/FEED\_ID/datastreams/DATASTREAM\_ID/datapoints?start=2012-05-21T07:48.014326Z |
| 请求头 | X-ApiKey API\_KEY\_HERE |
| 请求参数 | 无 |
| 返回状态码 | |  | | --- | | 200 OK | |
| 返回实体 | 无 |

|  |  |
| --- | --- |
| products | 产品，产品名称，描述，产品类型密钥，由厂商中心注册 |
| Devices | 设备，用户激活设备后，激活后产生API KEY，京东云端才会接收设备的数据，可以对设备信息增删查改操作 |
| KEYS | 客户端APP调用REST API的密钥令牌,京东云端才会接收设备的数据 |
| Key permissions | REST API调用权限控制，会限制访问的IP地址，操作的方法：PUT、GET、DELETE、UPDATE |
| Key resource | 对绑定数据源，数据流等访问资源的控制 |
| trigger | 触发器，自定义规则，设置条件，触发某个动作。 |

## 创建触发器

|  |  |
| --- | --- |
| 请求方法 | POST |
| 请求URL | https://api.smart.jcloud.com |
| Api端点 | / v1/triggers |
| 请求头 | X-ApiKey API\_KEY\_HERE |
| 请求参数 | {  "url" : "http : //requestb.in/131tsul1",  "trigger\_type" : "lt" ,  "threshold\_value" : "15.0" ,  "environment\_id" : 121601 ,  "stream\_id" : "example"  } |
| 返回状态码 | 201 CREATED |
| Location地址 | https://api.smart.jcloud.com/v1/triggers/TRIGGER\_ID |
| 返回实体 | 无 |

## 获取单个触发器信息

|  |  |
| --- | --- |
| 请求方法 | POST |
| 请求URL | https://api.smart.jcloud.com |
| Api端点 | / v1/triggers/TRIGGER\_ID |
| 请求头 | X-ApiKey API\_KEY\_HERE |
| 请求参数 | 无 |
| 返回状态码 | 200 OK |
| Location地址 | 无 |
| 返回实体 | { "id" : 21962 ,  "url" : "http : //requestb.in/131tsul1",  "trigger\_type" : "lt" ,  "user" : "USERNAME" ,  "environment\_id" : 121601 ,  "stream\_id" : "example" ,  "threshold\_value" : "15.0" ,  "notified\_at" : "2013-05-06T20:08:17Z" } |

## 更新触发器

|  |  |
| --- | --- |
| 请求方法 | PUT |
| 请求URL | https://api.smart.jcloud.com |
| Api端点 | /v1/triggers/TRIGGER\_ID |
| 请求头 | X-ApiKey API\_KEY\_HERE |
| 请求参数 | {  “trigger\_type” ：“GT” ，  “URL” ： “HTTP ：/ / requestb.in/vj5hzgvj“，  “threshold\_value” ：“10.0”  } |
| 返回状态码 | 200 OK |
| Location地址 | 无 |
| 返回实体 | 无 |

## 删除触发器

|  |  |
| --- | --- |
| 请求方法 | DELETE |
| 请求URL | https://api.smart.jcloud.com |
| Api端点 | / v1/triggers |
| 请求头 | X-ApiKey API\_KEY\_HERE |
| 请求参数 | 无 |
| 返回状态码 | 200 OK |
| Location地址 | 无 |
| 返回实体 | 无 |

## 查询触发器列表

|  |  |
| --- | --- |
| 请求方法 | GET |
| 请求URL | https://api.smart.jcloud.com |
| Api端点 | /v1/triggers.json?feed\_id=FEED\_ID\_HERE |
| 请求头 | X-ApiKey API\_KEY\_HERE |
| 请求参数 | 无 |
| 返回状态码 | 200 OK |
| Location地址 | 无 |
| 返回实体 | [  {  "id": 21961,  "url": "http://requestb.in/131tsul1",  "trigger\_type": "lt",  "user": "USERNAME",  "environment\_id": 121601,  "stream\_id": "example",  "threshold\_value": "15.0",  "notified\_at": "2013-05-06T20:08:17Z"  },  {  "id": 21962,  "url": "http://requestb.in/131tsul1",  "trigger\_type": "lt",  "user": "USERNAME",  "environment\_id": 121601,  "stream\_id": "example",  "threshold\_value": "15.0",  "notified\_at": "2013-05-06T20:08:17Z"  }  ] |