AFC-CD-APP 后台接口文档

V 1.01

更新时间:2017/07/24

# 客流预测和分析

## 车站分时客流分析

***URL:http://localhost:4060/stationShare***

***Method：GET***

***Input：***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **名称** | **类型** | **可否为空** | **备注** | **参数类型** |
| ***ids*** | List<int> | N | 车站id | RequestParam参数 |
| ***startTime*** | Date | N | 起始时间 |  |
| ***endTime*** | Date | N | 结束时间 |  |
| ***direct*** | int | N | 进出站标志 |  |

<http://127.0.0.1:4060/stationShare?ids=114,119,115,116,117,11&startTime=2017/12/01&endTime=2017/12/07&direct=1>

Output

## 车站累计客流分析

***URL:http://localhost:4060/stationSum***

***Method：GET***

***Input：***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **名称** | **类型** | **可否为空** | **备注** | **参数类型** |
| ***ids*** | List<int> | N | 车站id | RequestParam参数 |
| ***startTime*** | Date | N | 起始时间 |  |
| ***endTime*** | Date | N | 结束时间 |  |
| ***direct*** | int | N | 进出站标志 |  |

<http://127.0.0.1:4060/stationSum?ids=114,119,115,116,117,11&startTime=2017/12/01&endTime=2017/12/07&direct=1>

Output

## 车站分时客流预测

***URL:http://localhost:4060/stationSharePredict***

***Method：GET***

***Input：***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **名称** | **类型** | **可否为空** | **备注** | **参数类型** |
| ***ids*** | List<int> | N | 车站id | RequestParam参数 |
| ***startTime*** | Date | N | 起始时间 |  |
| ***endTime*** | Date | N | 结束时间 |  |
| ***direct*** | int | N | 进出站标志 |  |

<http://127.0.0.1:4060/stationSharePredict?ids=114,119,115,116,117,11&startTime=2017/12/12&endTime=2017/12/19&direct=1>

Output

## 车站累计客流预测

***URL:http://localhost:4060/stationSumPredict***

***Method：GET***

***Input：***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **名称** | **类型** | **可否为空** | **备注** | **参数类型** |
| ***ids*** | List<int> | N | 车站id | RequestParam参数 |
| ***startTime*** | Date | N | 起始时间 |  |
| ***endTime*** | Date | N | 结束时间 |  |
| ***direct*** | int | N | 进出站标志 |  |

http://127.0.0.1:4060/stationSumPredict?ids=114,119,115,116,117,11&startTime=2017/12/12&endTime=2017/12/19&direct=1

Output

## 线路分时客流分析

***URL:http://localhost:4060/lineShare***

***Method：GET***

***Input：***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **名称** | **类型** | **可否为空** | **备注** | **参数类型** |
| ***ids*** | List<int> | N | 线路id列表 | RequestParam参数 |
| ***startTime*** | Date | N | 起始时间 |  |
| ***endTime*** | Date | N | 结束时间 |  |
| ***direct*** | int | N | 进出站标志 |  |

http://127.0.0.1:4060/lineShare?ids=1,4,6,7,8&startTime=2017/12/04&endTime=2017/12/07&direct=1

Output

## 线路累计客流分析

***URL:http://localhost:4060/lineSum***

***Method：GET***

***Input：***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **名称** | **类型** | **可否为空** | **备注** | **参数类型** |
| ***ids*** | List<int> | N | 线路id列表 | RequestParam参数 |
| ***startTime*** | Date | N | 起始时间 |  |
| ***endTime*** | Date | N | 结束时间 |  |
| ***direct*** | int | N | 进出站标志 |  |

http://127.0.0.1:4060/lineSum?ids=1,4,6,7,8&startTime=2017/12/01&endTime=2017/12/07&direct=1

Output

|  |
| --- |
|  |

## 线路分时客流预测

***URL:http://localhost:4060/lineSharePredict***

***Method：GET***

***Input：***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **名称** | **类型** | **可否为空** | **备注** | **参数类型** |
| ***ids*** | List<int> | N | 线路id列表 | RequestParam参数 |
| ***startTime*** | Date | N | 起始时间 |  |
| ***endTime*** | Date | N | 结束时间 |  |
| ***direct*** | int | N | 进出站标志 |  |

http://127.0.0.1:4060/lineSharePredict?ids=1,4,6,7,8&startTime=2017/12/12&endTime=2017/12/19&direct=1

Output

## 线路累计客流预测

***URL:http://localhost:4060/lineSumPredict***

***Method:GET***

***Input：***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **名称** | **类型** | **可否为空** | **备注** | **参数类型** |
| ***ids*** | List<int> | N | 线路id列表 | RequestParam参数 |
| ***startTime*** | Date | N | 起始时间 |  |
| ***endTime*** | Date | N | 结束时间 |  |
| ***direct*** | int | N | 进出站标志 |  |

http://127.0.0.1:4060/lineSumPredict?ids=1,4,6,7,8&startTime=2017/12/12&endTime=2017/12/19&direct=1

Output

## 票卡分时对比

[***~~URL:http://localhost:4060/ticketShare~~***](URL:http://localhost:4060/ticketShare)

***URL:http://localhost:4060/TicketShare***

***Method:GET***

***Input:***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **名称** | **类型** | **可否为空** | **备注** | **参数类型** |
| ***ids*** | List<int> | N | 票种id列表 |  |
| ***startTime*** | Date | N | 起始时间 |  |
| ***endTime*** | Date | N | 结束时间 |  |
| ***direct*** | int | N | 进出站标志 |  |
| ***familyId*** | int | N | 票卡类型 |  |

[***~~http://127.0.0.1:4060/ticketShare?time=2017%2F11%2F20~~***](http://127.0.0.1:4060/ticketShare?time=2017%2F11%2F20)

***http://127.0.0.1:4060/TicketShare?ids=80,81,82,83,84,85&startTime=2017/12/01&endTime=2017/12/07&direct=1&familyId=1***

## 票卡累计对比

[***~~URL:http://localhost:4060/ticketSum~~***](URL:http://localhost:4060/ticketSum)

***URL:http://localhost:4060/TicketSum***

***Method:GET***

***Input:***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **名称** | **类型** | **可否为空** | **备注** | **参数类型** |
| ***ids*** | List<int> | N | 票种id列表 |  |
| ***startTime*** | Date | N | 起始时间 |  |
| ***endTime*** | Date | N | 结束时间 |  |
| ***direct*** | int | N | 进出站标志 |  |
| ***familyId*** | int | N | 票卡类型 |  |

[~~http:/~~***~~/127.0.0.1:4060/ticketSum?time=2017%2F11%2F20&section=10&direct=0~~***](http://127.0.0.1:4060/ticketSum?time=2017%2F11%2F20&section=10&direct=0)

***http://127.0.0.1:4060/TicketSum?ids=80,81,82,83,84,85&startTime=2017/12/01&endTime=2017/12/07&direct=1&familyId=1***

Output

# 设备状态监控

## 设备当前状态监控

***URL:http://localhost:4060/statusByIds***

***Method:GET***

***Input:***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **名称** | **类型** | **可否为空** | **备注** | **参数类型** |
| List<ReceiveMsg> | List | N | 设备id集合 | RequestParam参数 |

Output

## 设备关键报警推送

## 阵列报警推送

## 车站报警推送

## 通信网络报警推送

## 系统运行状态推送

## 地图历史报警

***http://127.0.0.1:4060/mapDetail?startTime=2017/08/01&endTime=2017/12/01&level=-1***

|  |  |  |  |
| --- | --- | --- | --- |
| **名称** | **类型** | **可否为空** | **备注** |
| startTime | Date | N | 起始时间 |
| endTime | Date | N | 结束时间 |
| level | Int | N | 查看报警级别(-1，0,1,2，-1代表全部) |

***当前历史报警Top***

***<http://127.0.0.1:4060/stationFailureTop?count=10>***

|  |  |  |  |
| --- | --- | --- | --- |
| **名称** | **类型** | **可否为空** | **备注** |
| count | Int | N | 数量(前十) |

# 故障分析与保养管理

## 典型故障分析

[***URL:http://localhost:4060/TagFailed/{flag}***](URL:http://localhost:4060/TagFailed/%7bflag%7d)

***URL:http://localhost:4060/TagFailed/percent***

***URL:http://localhost:4060/TagFailed/count***

***Method:GET***

***Input:***

|  |  |  |  |
| --- | --- | --- | --- |
| **名称** | **类型** | **可否为空** | **备注** |
| page | int | N | 页索引 |
| pageSize | int | N | 页数大小 |
| lineId | int | Y | 线路id  (lineId/stationId只能选择一个) |
| stationId | int | Y | 车站id |
| startTime | Date | N | 起始时间 |
| endTime | Date | N | 结束时间 |

[***http://localhost:4060/TagFailed/count?page=1&pageSize=10&lineId=4&startTime=2017/08/01&endTime=2017/12/01***](http://localhost:4060/TagFailed/count?page=1&pageSize=10&lineId=4&startTime=2017/08/01&endTime=2017/12/01)

[***http://localhost:4060/TagFailed/percent?page=1&pageSize=10&stationId=58&startTime=2017/08/01&endTime=2017/12/01***](http://localhost:4060/TagFailed/percent?page=1&pageSize=10&stationId=58&startTime=2017/08/01&endTime=2017/12/01)

Output

深入查看详情

[***URL:http://localhost:4060/***](URL:http://localhost:4060/tagFailed/%7bflag%7d)***tagFailedDetail/{flag}***

***URL:http://localhost:4060/tagFailedDetail/percent***

***URL:http://localhost:4060/tagFailedDetail/count***

***Method:GET***

***Input:***

|  |  |  |  |
| --- | --- | --- | --- |
| **名称** | **类型** | **可否为空** | **备注** |
| page | int | N | 页索引 |
| pageSize | int | N | 页数大小 |
| lineId | int | Y | 线路id  (lineId/stationId只能选择一个) |
| stationId | int | Y | 车站id |
| startTime | Date | N | 起始时间 |
| endTime | Date | N | 结束时间 |
| tagId | Int | N | Tag编号id |

***http://localhost:4060/tagFailedDetail/count?page=1&pageSize=10&lineId=4&startTime=2017/08/01&endTime=2017/12/01&tagId=53***

## 模块故障分析

[***URL:http://localhost:4060/ModuleFailed/{flag}***](URL:http://localhost:4060/ModuleFailed/%7bflag%7d)

***URL:http://localhost:4060/ModuleFailed/percent***

***URL:http://localhost:4060/ModuleFailed/count***

***Method:GET***

***Input:***

|  |  |  |  |
| --- | --- | --- | --- |
| **名称** | **类型** | **可否为空** | **备注** |
| moduleId | int | N | 模块id |
| page | int | N | 页索引 |
| pageSize | int | N | 页数大小 |
| lineId | int | N | 线路id(lineId和stationId，只能选一个) |
| stationId | int | N | 车站id |
| startTime | Date | N | 起始时间 |
| endTime | Date | N | 结束时间 |

[***http://127.0.0.1:4060/ModuleFailed/percent?moduleId=4&page=1&pageSize=10&lineId=4&startTime=2017/08/01&endTime=2017/12/01***](http://127.0.0.1:4060/ModuleFailed/percent?moduleId=4&page=1&pageSize=10&lineId=4&startTime=2017/08/01&endTime=2017/12/01)

[***http://127.0.0.1:4060/ModuleFailed/percent?moduleId=4&page=1&pageSize=10&stationId=96&startTime=2017/08/01&endTime=2017/12/01***](http://127.0.0.1:4060/ModuleFailed/percent?moduleId=4&page=1&pageSize=10&stationId=96&startTime=2017/08/01&endTime=2017/12/01)

***http://127.0.0.1:4060/ModuleFailed/count?moduleId=4&page=1&pageSize=10&lineId=4&startTime=2017/08/01&endTime=2017/12/01***

Output

模块故障详细分析

[***URL:http://localhost:4060/moduleFailedDetail/{flag}***](URL:http://localhost:4060/moduleFailedDetail/%7bflag%7d)

***URL:http://localhost:4060/moduleFailedDetail/percent***

***URL:http://localhost:4060/moduleFailedDetail/count***

***Method:GET***

***Input:***

|  |  |  |  |
| --- | --- | --- | --- |
| **名称** | **类型** | **可否为空** | **备注** |
| tagId | int | N | Tag编号id |
| page | int | N | 页索引 |
| pageSize | int | N | 页数大小 |
| lineId | int | N | 线路id(lineId和stationId，只能选一个) |
| stationId | int | N | 车站id |
| startTime | Date | N | 起始时间 |
| endTime | Date | N | 结束时间 |

***http://127.0.0.1:4060/moduleFailedDetail/percent?tagId=20&page=1&pageSize=10&lineId=4&startTime=2017/08/01&endTime=2017/12/01***

## 设备故障分析

[***URL:http://localhost:4060/DeviceFailed/{flag}***](URL:http://localhost:4060/DeviceFailed/%7bflag%7d)

***URL:http://localhost:4060/DeviceFailed/percent***

***URL:http://localhost:4060/DeviceFailed/count***

***Method:GET***

***Input:***

|  |  |  |  |
| --- | --- | --- | --- |
| **名称** | **类型** | **可否为空** | **备注** |
| page | int | N | 页索引 |
| pageSize | int | N | 页数大小 |
| lineId | int | N | 线路id(lineId和stationId只能选择一个) |
| stationId | int | N | 车站id |
| deviceType | int | N | 设备类型 |
| startTime | Date | N | 起始时间 |
| endTime | Date | N | 结束时间 |

[***~~http://localhost:4060/deviceFailed/percent?page=1&pageSize=10&lineId=4&timeCount=6~~***](http://localhost:4060/deviceFailed/percent?page=1&pageSize=10&lineId=4&timeCount=6)

http://127.0.0.1:4060/DeviceFailed/percent?page=1&pageSize=10&lineId=4&deviceType=3&startTime=2017/08/01&endTime=2017/12/01

http://127.0.0.1:4060/DeviceFailed/count?page=1&pageSize=10&stationId=58&deviceType=3&startTime=2017/08/01&endTime=2017/12/01

Output

设备故障详细分析

[***URL:http://localhost:4060/DeviceFailedDetail/{flag}***](URL:http://localhost:4060/DeviceFailedDetail/%7bflag%7d)

***URL:http://localhost:4060/DeviceFailedDetail/percent***

***URL:http://localhost:4060/DeviceFailedDetail/count***

***Method:GET***

***Input:***

|  |  |  |  |
| --- | --- | --- | --- |
| **名称** | **类型** | **可否为空** | **备注** |
| page | int | N | 页索引 |
| pageSize | int | N | 页数大小 |
| deviceId | int | N | 设备id |
| startTime | Date | N | 起始时间 |
| endTime | Date | N | 结束时间 |

[***~~http://localhost:4060/deviceFailed/percent?page=1&pageSize=10&lineId=4&timeCount=6~~***](http://localhost:4060/deviceFailed/percent?page=1&pageSize=10&lineId=4&timeCount=6)

<http://127.0.0.1:4060/DeviceFailedDetail/percent?deviceId=50618881&startTime=2017/08/01&endTime=2017/12/01&page=1&pageSize=10>

<http://127.0.0.1:4060/DeviceFailedDetail/count?deviceId=50618881&startTime=2017/08/01&endTime=2017/12/01&page=1&pageSize=10>

Output

## 设备宕机率（开机率）分析

[***URL:***](URL:http://localhost:4060/deviceFailed/%7bflag%7d) ***http://127.0.0.1:4060/deviceDown/{flag}***

***URL:*** ***http://127.0.0.1:4060/deviceDown/percent***

***URL:*** ***http://127.0.0.1:4060/deviceDown/count***

***Method:GET***

***Input:***

|  |  |  |  |
| --- | --- | --- | --- |
| **名称** | **类型** | **可否为空** | **备注** |
| location | string | N | 定位目标  Line—线路  Station—车站 |
| id | int | N | 目标id |
| startTime | Date | N | 起始时间 |
| endTime | Date | N | 结束时间 |
| page | int | N | 页索引 |
| pageSize | int | N | 页数 |

***http://127.0.0.1:4060/deviceDown/percent?location=line&id=4&page=1&pageSize=10&startTime=2017/02/01&endTime=2017/05/01***

Output

## 故障因子分析(20171201)

[***URL:***](URL:http://localhost:4060/deviceFailed/%7bflag%7d) [***http://127.0.0.1:4060/failureReason/{flag}***](http://127.0.0.1:4060/failureReason/%7bflag%7d)

***平均运行时长***

***URL:*** [***http://127.0.0.1:4060/failureReason/section***](http://127.0.0.1:4060/failureReason/section)

***平均交易次数***

***URL:*** ***http://127.0.0.1:4060/failureReason/count***

***Method:GET***

***Input:***

|  |  |  |  |
| --- | --- | --- | --- |
| **名称** | **类型** | **可否为空** | **备注** |
| deviceType | int | N | 设备类型 |
| moduleId | int | N | 模块id |
| Location | string | N | 定位目标  default—默认  line—线路  station—车站  device—设备 |
| startTime | Date | N | 起始时间 |
| endTime | Date | N | 结束时间 |
| id | int | Y | 定位目标id |

***//1、平均运行时间***

***//查询所有线路(默认)***

[***http://127.0.0.1:4060/failureReason/section?deviceType=3&moduleId=12&location=default&startTime=2017/08/01&endTime=2017/12/01***](http://127.0.0.1:4060/failureReason/section?deviceType=3&moduleId=12&location=default&startTime=2017/08/01&endTime=2017/12/01)

***//查询线路4***

[***http://127.0.0.1:4060/failureReason/section?deviceType=3&moduleId=12&location=line&startTime=2017/08/01&endTime=2017/12/01&id=4***](http://127.0.0.1:4060/failureReason/section?deviceType=3&moduleId=12&location=line&startTime=2017/08/01&endTime=2017/12/01&id=4)

***//根据车站查询***

[***http://127.0.0.1:4060/failureReason/section?deviceType=3&moduleId=12&location=station&startTime=2017/08/01&endTime=2017/12/01&id=58***](http://127.0.0.1:4060/failureReason/section?deviceType=3&moduleId=12&location=station&startTime=2017/08/01&endTime=2017/12/01&id=58)

***//根据设备查询***

[***http://127.0.0.1:4060/failureReason/section?deviceType=3&moduleId=12&location=device&startTime=2017/08/01&endTime=2017/12/01&id=50616321***](http://127.0.0.1:4060/failureReason/section?deviceType=3&moduleId=12&location=device&startTime=2017/08/01&endTime=2017/12/01&id=50616321)

***//2、平均交易次数***

***//查询所有线路(默认)***

[***http://127.0.0.1:4060/failureReason/count?deviceType=3&moduleId=12&location=default&startTime=2017/08/01&endTime=2017/12/01***](http://127.0.0.1:4060/failureReason/count?deviceType=3&moduleId=12&location=default&startTime=2017/08/01&endTime=2017/12/01)

***//查询线路4***

[***http://127.0.0.1:4060/failureReason/count?deviceType=3&moduleId=12&location=line&startTime=2017/08/01&endTime=2017/12/01&id=4***](http://127.0.0.1:4060/failureReason/count?deviceType=3&moduleId=12&location=line&startTime=2017/08/01&endTime=2017/12/01&id=4)

***//根据车站查询***

[***http://127.0.0.1:4060/failureReason/count?deviceType=3&moduleId=12&location=station&startTime=2017/08/01&endTime=2017/12/01&id=58***](http://127.0.0.1:4060/failureReason/count?deviceType=3&moduleId=12&location=station&startTime=2017/08/01&endTime=2017/12/01&id=58)

***//根据设备查询***

[***http://127.0.0.1:4060/failureReason/count?deviceType=3&moduleId=12&location=device&startTime=2017/08/01&endTime=2017/12/01&id=50616321***](http://127.0.0.1:4060/failureReason/count?deviceType=3&moduleId=12&location=device&startTime=2017/08/01&endTime=2017/12/01&id=50616321)

## 故障因子分析(20171214)

[***URL:***](URL:http://localhost:4060/deviceFailed/%7bflag%7d) [***http://127.0.0.1:4060/failureReason/{flag}***](http://127.0.0.1:4060/failureReason/%7bflag%7d)

***平均运行时长***

***URL:*** [***http://127.0.0.1:4060/failureReason/section***](http://127.0.0.1:4060/failureReason/section)

***平均交易次数***

***URL:*** ***http://127.0.0.1:4060/failureReason/count***

***Method:GET***

***Input:***

|  |  |  |  |
| --- | --- | --- | --- |
| **名称** | **类型** | **可否为空** | **备注** |
| moduleId | int | N | 模块id |
| location | string | N | 定位目标  linesWithModule—全线路  lineWithModule—线路  stationWithModule—车站  deviceWithModule—设备 |
| startTime | Date | N | 起始时间 |
| endTime | Date | N | 结束时间 |
| id | int | Y | 定位目标id |

***//1、平均运行时间***

***//全线路+模块类型***

[***http://127.0.0.1:4060/failureReason/section?moduleId=12&location=linesWithModule&startTime=2017/08/01&endTime=2017/12/01***](http://127.0.0.1:4060/failureReason/section?moduleId=12&location=linesWithModule&startTime=2017/08/01&endTime=2017/12/01)

***//线路+模块类型***

[***http://127.0.0.1:4060/failureReason/section?moduleId=12&location=lineWithModule&startTime=2017/08/01&endTime=2017/12/01&id=4***](http://127.0.0.1:4060/failureReason/section?moduleId=12&location=lineWithModule&startTime=2017/08/01&endTime=2017/12/01&id=4)

***//线路+车站+模块类型***

[***http://127.0.0.1:4060/failureReason/section?moduleId=12&location=stationWithModule&startTime=2017/08/01&endTime=2017/12/01&id=58***](http://127.0.0.1:4060/failureReason/section?moduleId=12&location=stationWithModule&startTime=2017/08/01&endTime=2017/12/01&id=58)

***//线路+车站+设备+模块类型***

[***http://127.0.0.1:4060/failureReason/section?moduleId=12&location=deviceWithModule&startTime=2017/08/01&endTime=2017/12/01&id=50616321***](http://127.0.0.1:4060/failureReason/section?moduleId=12&location=deviceWithModule&startTime=2017/08/01&endTime=2017/12/01&id=50616321)

***//2、平均交易次数***

***//全线路+模块类型***

[***http://127.0.0.1:4060/failureReason/count?moduleId=12&location=linesWithModule&startTime=2017/08/01&endTime=2017/12/01***](http://127.0.0.1:4060/failureReason/count?moduleId=12&location=linesWithModule&startTime=2017/08/01&endTime=2017/12/01)

***//线路+模块类型***

[***http://127.0.0.1:4060/failureReason/count?moduleId=12&location=lineWithModule&startTime=2017/08/01&endTime=2017/12/01&id=4***](http://127.0.0.1:4060/failureReason/count?moduleId=12&location=lineWithModule&startTime=2017/08/01&endTime=2017/12/01&id=4)

***//线路+车站+模块类型***

[***http://127.0.0.1:4060/failureReason/count?moduleId=12&location=stationWithModule&startTime=2017/08/01&endTime=2017/12/01&id=58***](http://127.0.0.1:4060/failureReason/count?moduleId=12&location=stationWithModule&startTime=2017/08/01&endTime=2017/12/01&id=58)

***//线路+车站+设备+模块类型***

[***http://127.0.0.1:4060/failureReason/count?moduleId=12&location=deviceWithModule&startTime=2017/08/01&endTime=2017/12/01&id=50616321***](http://127.0.0.1:4060/failureReason/count?moduleId=12&location=deviceWithModule&startTime=2017/08/01&endTime=2017/12/01&id=50616321)

## 平均修复时长

[***URL:***](URL:http://localhost:4060/deviceFailed/%7bflag%7d) [***http://127.0.0.1:4060/failureReason/{flag}***](http://127.0.0.1:4060/failureReason/%7bflag%7d)

***平均运行时长***

***URL:*** ***http://127.0.0.1:4060/failureReason/repair***

***Method:GET***

***Input:***

|  |  |  |  |
| --- | --- | --- | --- |
| **名称** | **类型** | **可否为空** | **备注** |
| moduleId | int | N | 模块id |
| location | string | N | 定位目标  linesWithModule—全线路  lineWithModule—线路  stationWithModule—车站  deviceWithModule—设备 |
| startTime | Date | N | 起始时间 |
| endTime | Date | N | 结束时间 |
| id | int | Y | 定位目标id |

***//1、平均运行时间***

***//全线路+模块类型***

[***http://127.0.0.1:4060/failureReason/repair?moduleId=12&location=linesWithModule&startTime=2017/08/01&endTime=2017/12/01***](http://127.0.0.1:4060/failureReason/repair?moduleId=12&location=linesWithModule&startTime=2017/08/01&endTime=2017/12/01)

***//线路+模块类型***

[***http://127.0.0.1:4060/failureReason/repair?moduleId=12&location=lineWithModule&startTime=2017/08/01&endTime=2017/12/01&id=4***](http://127.0.0.1:4060/failureReason/repair?moduleId=12&location=lineWithModule&startTime=2017/08/01&endTime=2017/12/01&id=4)

***//线路+车站+模块类型***

[***http://127.0.0.1:4060/failureReason/repair?moduleId=12&location=stationWithModule&startTime=2017/08/01&endTime=2017/12/01&id=58***](http://127.0.0.1:4060/failureReason/repair?moduleId=12&location=stationWithModule&startTime=2017/08/01&endTime=2017/12/01&id=58)

***//线路+车站+设备+模块类型***

[***http://127.0.0.1:4060/failureReason/repair?moduleId=12&location=deviceWithModule&startTime=2017/08/01&endTime=2017/12/01&id=50616321***](http://127.0.0.1:4060/failureReason/repair?moduleId=12&location=deviceWithModule&startTime=2017/08/01&endTime=2017/12/01&id=50616321)

## 保养计划生成

## 保养计划状态监视

# 耗材分析与预测

## 消耗分析和预测

[***URL:http://localhost:4060/component/{flag}***](URL:http://localhost:4060/deviceFailed/%7bflag%7d)

***消耗分析***

[***URL:http://localhost:4060/component/consume***](URL:http://localhost:4060/component/consume)

***消耗预测***

***URL:http://localhost:4060/component/predict***

***Method:GET***

***Input:***

|  |  |  |  |
| --- | --- | --- | --- |
| **名称** | **类型** | **可否为空** | **备注** |
| page | int | N | 页索引 |
| pageSize | int | N | 页数 |
| startTime | Date | N | 起始时间 |
| endTime | Date | N | 结束时间 |

[***http://127.0.0.1:4060/component/consume?page=1&pageSize=10&startTime=2017/01/01&endTime=2017/12/01***](http://127.0.0.1:4060/component/consume?page=1&pageSize=10&startTime=2017/01/01&endTime=2017/12/01)

***http://127.0.0.1:4060/component/predict?page=1&pageSize=10&startTime=2018/01/01&endTime=2018/12/01***

Output

## 耗材去向分析

# 能耗分析与节能

## 供电系统分析

[***http://112.124.51.202:4060/power?time=2017/12/07***](http://112.124.51.202:4060/power?time=2017/12/07)

## 通风系统分析

[***http://112.124.51.202:4060/ventilation?time=2017/12/07***](http://112.124.51.202:4060/ventilation?time=2017/12/07)

## 空调系统分析

[***http://112.124.51.202:4060/airCondition?time=2017/12/07***](http://112.124.51.202:4060/airCondition?time=2017/12/07)

## 电扶梯系统分析

[***http://112.124.51.202:4060/escalator?time=2017/12/07***](http://112.124.51.202:4060/escalator?time=2017/12/07)

## 照明系统分析

[***http://112.124.51.202:4060/lighting?time=2017/12/07***](http://112.124.51.202:4060/lighting?time=2017/12/07)

# 基础信息接口

***//线路下车站***

***http://127.0.0.1:4060/stationsByLineId/{id}***

***http://127.0.0.1:4060/stationsByLineId/4***

***//车站下设备***

***http://127.0.0.1:4060/findByStationId/{id}***

[***http://127.0.0.1:4060/findByStationId/58***](http://127.0.0.1:4060/findByStationId/58)

***票卡类型***

[***http://127.0.0.1:4060/ticketFamily***](http://127.0.0.1:4060/ticketFamily)

***根据票卡类型获取票卡种类***

[***http://127.0.0.1:4060/findByFamilyId/{id}***](http://127.0.0.1:4060/findByFamilyId/%7bid%7d)

[***http://127.0.0.1:4060/findByFamilyId/1***](http://127.0.0.1:4060/findByFamilyId/1)

***获取设备类型***

[***http://127.0.0.1:4060/AllEquipmentSubType***](http://127.0.0.1:4060/AllEquipmentSubType)

***获取模块类型***

***http://127.0.0.1:4060/RefModules***