顾客行为分析3.0

公共组件

**日志组件**

**安全组件**

**异常组件**

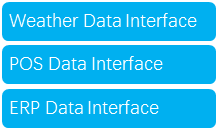
数据访问层

数据访问接口

业务数据库

外部平台自定义数据源

Data采集数据库



业务逻辑层

权限、许可证组件

首页自定义组件

报表组件

自定义数据源组件

Data采集配置组件

定时任务组件

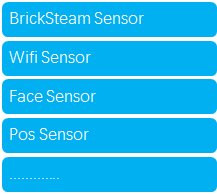
报表维度管理组件

邮件、公众号接口

外部平台数据查询

Data采集组件

插件



展现层

浏览器（电脑/PAD/手机）

1. 展现层需求

1、界面简洁友好

2、使用响应式布局，在手机PAD上也能提供较好的浏览体验

3、界面切换流畅、无卡顿、数据量大的报表使用异步操作

4、多语言支持，可配置添加语言

二、业务层需求

1、权限许可证：对系统配置操作使用精确到BUTTON的权限管理、不同报表展示使用许可证形式、并可分永久、定期。

2、报表组件：将报表数据与样式、格式分离。让模板承载样式、格式等，使报表可自由添加、修改。

3、报表维度管理组件：可自定义报表维度，如时间、地区（华东、华中、华西）、业态（服饰、商品、餐饮），可以给案场配置不同的TAG，用于匹配。

4、Data采集配置组件：

I、主要负责接受传感器数据与从外部数据库拉取数据，格式化数据、入库。

II、与某一传感器或某一数据库解耦，可以模块或插件的方式支持不同种类的传感器、数据库。

III、模块与插件需能识别不同种类的设备异常、数据库连接异常，统一提交给异常组件进行处理。

IV、需有备份、还原、历史数据按时间节点压缩保存功能。

V、提供模块与插件的详细软件接口，方便日后添加。

5、首页、登录页面自定义组件：针对不同用户，需提供自定义首页的功能，定义范围包括首页排版、文字、不同种类的报表，主页定义LOGO与文字即可。

6、外部平台自定义数据源：对于呈现报表需要从外部系统(如ERP、CRM)拉取的数据（于Data采集的区别在于只用不保存）接口插件化、统一管理。

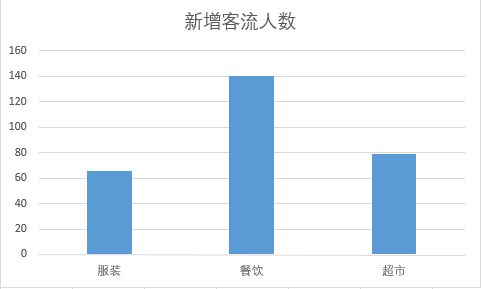
7、定时任务组件：某些需要定时执行的任务（如定期清理历史数据、推送报警等）。

8、邮件公众号接口：推送报表、报警、异常信息用到的接口。

9、外部平台数据查询：提供从外部平台查询数据的接口，方便连接大屏或与其它平台做数据对接时使用。

三、业务示例

如展示一张今日新增客流人数（非回头客）的报表，报表类似如下图片：



背景:一家购物中心总共有5家店，1、2号服装店，3，4号餐饮店，5号超市店，分别安装了客流与wifi感应设备，其中5号店铺由于有2个入口，客流设备编号对照为01、02、03、04、51、52 ，51、52设备各设置了2条EnterLine，wifi设备编号为01、02、03、04、05与店铺一一对应。

1、添加6个客流传感器，编号为Brickstream01、Brickstream02、Brickstream03、Brickstream04、Brickstream51、Brickstream52，添加五个WIFI传感器，编号对应WifiSensor01、WifiSensor02、WifiSensor03、WifiSensor04、WifiSensor05。

2、添加6个新案场（ShoppingCenter01、Shop01、Shop02...），Shop01-Shop05为ShoppingCenter的次级结构，Shop 1、2新增自定义TAG店铺分类=服装，Shop 3、4新增自定义TAG店铺分类=餐饮，Shop 5新增自定义TAG店铺分类=超市。

3、Shop 5添加2个次级结构入口1(DOOR1)、入口2(DOOR2)，对应2个入口

4、为案场绑定客流传感器数据，如Shop1设置进入人数(EnterCount)为公式：Bricksteam01.EnterCount.Line1，Shop5进入人数(EnterCount)为公式:DOOR1.EnterCount+DOOR2.EnterCount，次级结构DOOR1进入人数(EnterCount)公式为:Bricksteam51.EnterCount.Line1+Bricksteam51.EnterCount.Line2，DOOR2公式为Bricksteam52.EnterCount.Line1+Bricksteam52.EnterCount.Line2。

5、为案场绑定WIFI传感器数据，如Shop1设置90天内新增客流比例(WifiNewCustomerPercentIn90Day)公式:WifiSensor01.Count.IsNew(90)/WifiSensor01.Count，2、3、4、5案场以此类推。

6、新增一个报表维度，店铺分类(Category)，设定值与排序为:服装、餐饮、超市，取值方式设定为Count，增加一个固定范围DateTime.Today

7、新增一个报表公式，（90天内新增客流人数）NewCustomerPercentIn90Day，公式为:Shop.EnterCount\*Shop.WifiNewCustomerPercentIn90Day

8、新增一个报表模板，确定显示样式。

9、新增一个报表绑定模板、公式、维度，显示报表。

四、Data采集插件需求

1、Brickstream Smart Device

使用中间件SmartCameraHttp进行通信、中间件收到数据在指定位置创建文件，文件名与数据格式如下

**Counting Records**

**Filename:** CountDataRecords\_YYYY-MM-DD.txt

**Record Format:**

<MAC>,<Start\_Date>,<Start\_Time>,<End\_Date>,<End\_Time>,<Zone\_ID>,<Total\_Enters>,<Total\_Exits>,<Enters>,<Exits>,<Status>

|  |  |  |
| --- | --- | --- |
|  | **Field** | **Description** |
|  | <MAC> | MAC address of the Clarity sensor |
|  | <Start\_Date> | Start date of the period measured |
|  | <Start\_Time> | Start time of the period measured |
|  | <End\_Date> | End date of the period measured |
|  | <End\_Time> | End time of the period measured |
|  | <Zone\_ID> | Unique ID of the zone whose data is reported in this record |
|  | <Total\_Enters> | Number of enters in this zone since the SmartCameraHTTP application was started |
|  | <Total\_Exits> | Number of exits in this zone since the SmartCameraHTTP application was started |
|  | <Enters> | Number of enters in this zone between the Start Date/Time and End Date/Time (typically 60 seconds) |
|  | <Exits> | Number of exits in this zone between the Start Date/Time and End Date/Time (typically 60 seconds) |
|  | <Status> | Zone status at the time that the data packet was created (0 = Normal, 1 = Offline, 4 = Dark Lens) |

**Service Records**

**Filename:** ServiceDataRecords\_YYYY-MM-DD.txt

**Record Format:**

<MAC>,<Start\_Date>,<Start\_Time>,<End\_Date>,<End\_Time>,<Zone\_ID>,<Customers\_Served>,<Seconds\_Occupied>,<Status>

|  |  |
| --- | --- |
| **Field** | **Description** |
| <MAC> | MAC address of the Clarity sensor |
| <Start\_Date> | Start date of the period measured |
| <Start\_Time> | Start time of the period measured |
| <End\_Date> | End date of the period measured |
| <End\_Time> | End time of the period measured |
| <Zone\_ID> | Unique ID of the zone whose data is reported in this record |
| <Customers\_Served> | Number of customers served in this zone between the Start Date/Time and End Date/Time (typically 60 seconds) |
| <Seconds\_Occupied> | Number of seconds this zone was occupied between the Start Date/Time and End Date/Time (typically 60 seconds) |
| <Status> | Zone status at the time that the data packet was created (0 = Normal, 1 = Offline, 4 = Dark Lens) |

**Queue Records**

**Filename:** QueueDataRecords\_YYYY-MM-DD.txt

**Record Format:**

<MAC>,<Start\_Date>,<Start\_Time>,<End\_Date>,<End\_Time>,<Zone\_ID>,<Avg>,<Max>,<Min>,<Seconds\_Open>,<Queue\_Exits>,<Status>

|  |  |  |
| --- | --- | --- |
|  | **Field** | **Description** |
|  | <MAC> | MAC address of the Clarity sensor |
|  | <Start\_Date> | Start date of the period measured |
|  | <Start\_Time> | Start time of the period measured |
|  | <End\_Date> | End date of the period measured |
|  | <End\_Time> | End time of the period measured |
|  | <Zone\_ID> | Unique ID of the zone whose data is reported in this record |
|  | <Avg> | Average queue length in this zone between the Start Date/Time and End Date/Time (typically 60 seconds) |
|  | <Max> | Maximum queue length in this zone between the Start Date/Time and End Date/Time (typically 60 seconds) |
|  | <Min> | Minimum queue length in this zone between the Start Date/Time and End Date/Time (typically 60 seconds) |
|  | <Seconds\_Open> | Number of seconds this zone was open between the Start Date/Time and End Date/Time (typically 60 seconds) |
|  | <Queue\_Exits> | Number of queue exits (e.g. unique tracks crossing the pink line; may not be equal to queue samples generated) |
|  | <Status> | Zone status at the time that the data packet was created (0 = Normal, 1 = Offline, 4 = Dark Lens) |

**Queue Wait Time & Service Time Sample Records**

**Filename:** WaitTimeDataRecords\_YYYY-MM-DD.txt

**Record Format:**

<MAC>,<Start\_Date>,<Start\_Time>,<End\_Date>,<End\_Time>,<Zone\_ID>,<Duration>,<Type>

|  |  |
| --- | --- |
| **Field** | **Description** |
| <MAC> | MAC address of the Clarity sensor |
| <Start\_Date> | Start date of the sample |
| <Start\_Time> | Start time of the sample |
| <End\_Date> | End date of the sample |
| <End\_Time> | End time of the sample |
| <Zone\_ID> | Unique ID of the zone whose data is reported in this record |
| <Duration> | Number of seconds the sample was registered in this zone (e.g. difference in seconds between start and end) |
| <Type> | Sample type (S = Service Time, W = Wait Time) |

**Detection Records**

**Filename:** DetectionDataRecords\_YYY-MM-DD.txt

**Record Format:**

<MAC>,<Start\_Date>,<Start\_Time>,<End\_Date>,<End\_Time>,<Zone\_ID>,<Seconds\_Occupied>,<Average Value><Status>

|  |  |
| --- | --- |
| **Field** | **Description** |
| <MAC> | MAC address of the Clarity sensor |
| <Start\_Date> | Start date of the period measured |
| <Start\_Time> | Start time of the period measured |
| <End\_Date> | End date of the period measured |
| <End\_Time> | End time of the period measured |
| <Zone\_ID> | Unique ID of the zone whose data is reported in this record |
| <Seconds\_Occupied> | Number of seconds this zone was occupied between the Start Date/Time and End Date/Time (typically 60 seconds) |
| <Average Value> | The sum of the detection values recorded over the sample period divided by the number of samples. |
| <Status> | Zone status at the time that the data packet was created (0 = Normal, 1 = Offline, 4 = Dark Lens) |

2、wifi感知设备

使用HTTP协议，由设备主动推送，数据较为简单：MAC地址、信号强度、时间戳

3、微信摇一摇

**接口调用请求说明**

http请求方式: POST（请使用https协议）

https://api.weixin.qq.com/shakearound/statistics/device?access\_token=ACCESS\_TOKEN

POST数据格式：json

POST数据例子：

{

"device\_identifier":{

"device\_id":10011,

"uuid":"FDA50693-A4E2-4FB1-AFCF-C6EB07647825",

"major":1002,

"minor":1223

},

"begin\_date": 1438704000,

"end\_date": 1438704000

}

**参数说明**

|  |  |  |
| --- | --- | --- |
| **参数** | **是否必须** | **说明** |
| access\_token | 是 | 调用接口凭证 |
| device\_identifier | 是 | 指定页面的设备ID |
| device\_id | 是 | 设备编号，若填了UUID、major、minor，即可不填设备编号，二者选其一 |
| UUID、major、minor | 是 | UUID、major、minor，三个信息需填写完成，若填了设备编辑，即可不填此信息，二者选其一 |
| begin\_date | 是 | 起始日期时间戳，最长时间跨度为30天，单位为秒 |
| end\_date | 是 | 结束日期时间戳，最长时间跨度为30天，单位为秒 |

**返回说明** 正常时的返回JSON数据包示例：

{

"data": [

{

"click\_pv": 0,

"click\_uv": 0,

"ftime": 1425052800,

"shake\_pv": 0,

"shake\_uv": 0

},

{

"click\_pv": 0,

"click\_uv": 0,

"ftime": 1425139200,

"shake\_pv": 0,

"shake\_uv": 0

}

],

"errcode": 0,

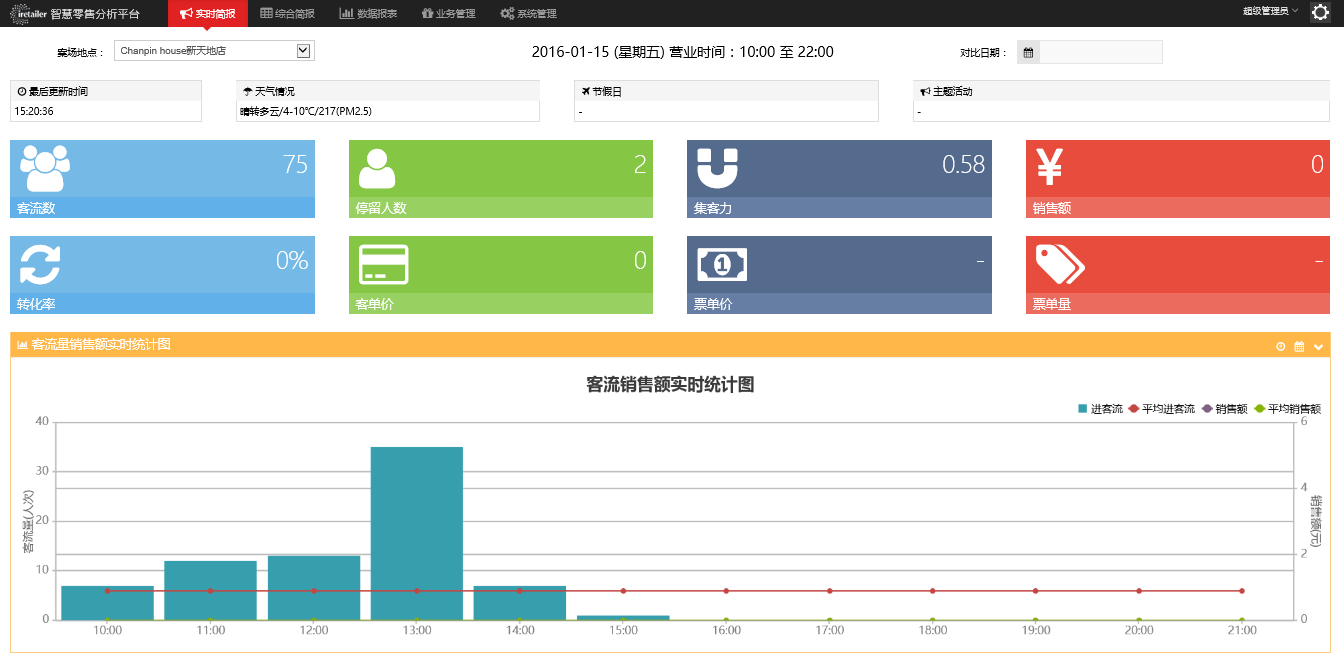
"errmsg": "success."

}

**参数说明**

|  |  |
| --- | --- |
| **参数** | **说明** |
| ftime | 当天0点对应的时间戳 |
| click\_pv | 点击摇周边消息的次数 |
| click\_uv | 点击摇周边消息的人数 |
| shake\_pv | 摇周边的次数 |
| shake\_uv | 摇周边的人数 |

五、1.0版本信息

1、总览



2、数据库结构

**childflow**

   Field        Type                                   Extra

P  ID           int(11)                                Auto Increment

   ZoneID       int(11)

   DateTime     timestamp COMMENT '发生的时间'              Allow Null

   Date         date                                   Allow Null

   DateHour     smallint(6)                            Allow Null

   DateMin      smallint(6)                            Allow Null

   CountEnter   smallint(6) UNSIGNED COMMENT '进入客流量'   Allow Null

   CountExit    smallint(6) UNSIGNED COMMENT '出去客流量'   Allow Null

   Index                           Fields   Extra

   passengerflow\_zoneid\_zone\_idx   ZoneID

说明:儿童追踪（1.0未用、无数据）

**D\_Alarm**

   Field         Type           Extra

P  Id            varchar(50)

   Code          varchar(10)

   Description   varchar(500)

   Keys          varchar(500)   Allow Null

   Name          varchar(50)

说明：自定义报警

**D\_AlarmMethod**

   Field      Type          Extra

P  Id         varchar(50)

   Name       varchar(20)

   Method     varchar(20)

   Server     varchar(20)   Allow Null

   Port       varchar(10)   Allow Null

   UserName   varchar(50)   Allow Null

   UserPass   varchar(50)   Allow Null

**D\_AlarmPolicy**

   Field         Type          Extra

P  Id            varchar(50)

   AlarmCode     varchar(10)

   Method        varchar(20)

   MinCount      int(11)       Allow Null

   RepeatCount   int(11)       Allow Null

   AlarmLevel    varchar(10)   Allow Null

**D\_Location**

   Field        Type                            Extra

P  Id           varchar(50) COMMENT '地理位置主键'

   Name         varchar(200) COMMENT '地理位置名称'   Allow Null

   Level        int(200) COMMENT '地理位置层次'       Allow Null

   ParentId     varchar(50) COMMENT '上级位置'

   ImageUrl     varchar(300) COMMENT '图标'       Allow Null

   GetWeather   int(11)                         Allow Null

   CityCode1    varchar(20)                     Allow Null

   CityCode2    varchar(20)                     Allow Null

   Rank         int(11) COMMENT '次序'

   Visible      int(11)                         Allow Null

   UpdateUser   varchar(50)                     Allow Null

   UpdateTime   varchar(20)                     Allow Null

   DeleteFlag   int(11)

**D\_Store**

   Field              Type                                                Extra

P  Id                 varchar(50) COMMENT '商城或连锁店主键'

   StoreName          varchar(100) COMMENT '商城名称'                         Allow Null

   ShortName          varchar(20) COMMENT '商城短名'                          Allow Null

   SiteId             int(11)                                             Allow Null

   StoreRegionId      varchar(50) COMMENT '商店区域，例如华中地区等'                  Allow Null

   StoreProvinceId    varchar(50) COMMENT '商店所在省份'                        Allow Null

   StoreCityId        varchar(50) COMMENT '城市'                            Allow Null

   StoreDistrictId    varchar(50) COMMENT '所在行政区域，例如黄埔区'                  Allow Null

   Address            varchar(400) COMMENT '地址'                           Allow Null

   ClerkNumber        varchar(50) COMMENT '员工数量'                          Allow Null

   OperationAcreage   varchar(50) COMMENT '经营面积'                          Allow Null

   RentTypeID         varchar(50) COMMENT '承租方式（纯租金、保底租金加扣点、保底租金扣点取其高）'   Allow Null

   RentCost           int(11) COMMENT '每平米日租金'                            Allow Null

   Discount           decimal(10,6) COMMENT '扣率'                          Allow Null

   CreateTime         varchar(20)                                         Allow Null

   CreateUser         varchar(50)                                         Allow Null

   UpdateTime         varchar(20)                                         Allow Null

   UpdateUser         varchar(50)                                         Allow Null

   DeleteFlag         int(11) COMMENT '删除标记'                              Allow Null

**device**

   Field          Type          Extra

P  ID             int(11)       Auto Increment

   StoreId        varchar(50)   Allow Null

   Name           varchar(64)   Allow Null

   DeviceNameID   varchar(24)   Allow Null

   IPaddr         varchar(15)   Allow Null

   MACaddr        varchar(24)   Allow Null

   ChannelID      smallint(6)

   Enabled        tinyint(1)

   DeviceType     varchar(8)    Allow Null

   RSSIenter      smallint(6)   Allow Null

   UpdateTime     timestamp     Allow Null

**dwelltime**

   Field             Type          Extra

P  ID                int(11)       Auto Increment

   ZoneID            int(11)

   StarTime          timestamp     Allow Null

   Date              varchar(25)   Allow Null

   DateHour          smallint(6)   Allow Null

   DateMin           smallint(6)   Allow Null

   NumberServed      smallint(6)   Allow Null

   SecondsOccupied   smallint(6)   Allow Null

   Index                    Fields     Extra

   fk\_dwelltime\_zone1\_idx   ZoneID

   indexDate                Date

   Idx\_DateTime             StarTime

**familyflow**

   Field        Type                                   Extra

P  ID           int(11)                                Auto Increment

   ZoneID       int(11)

   DateTime     timestamp COMMENT '发生的时间'              Allow Null

   Date         date                                   Allow Null

   DateHour     smallint(6)                            Allow Null

   DateMin      smallint(6)                            Allow Null

   CountEnter   smallint(6) UNSIGNED COMMENT '进入客流量'   Allow Null

   CountExit    smallint(6) UNSIGNED COMMENT '出去客流量'   Allow Null

   Index                           Fields   Extra

   passengerflow\_zoneid\_zone\_idx   ZoneID

**MT\_dwelltime**

   Field             Type          Extra

P  ID                int(11)       Auto Increment

   ZoneID            int(11)

   StarTime          timestamp     Allow Null

   Date              varchar(25)   Allow Null

   DateHour          smallint(6)   Allow Null

   DateMin           smallint(6)   Allow Null

   NumberServed      smallint(6)   Allow Null

   SecondsOccupied   smallint(6)   Allow Null

   Index                    Fields     Extra

   fk\_dwelltime\_zone1\_idx   ZoneID

   indexDate                Date

   Idx\_DateTime             StarTime

**MT\_Pack\_dwelltime**

   Field             Type                                   Extra

P  ID                int(11)                                Auto Increment

   ZoneID            int(11)

   Date              varchar(20)                            Allow Null

   DateHour          smallint(6)                            Allow Null

   DateMinPeriod     smallint(6)                            Allow Null

   NumberServed      smallint(6) UNSIGNED COMMENT '进入客流量'   Allow Null

   SecondsOccupied   smallint(6) UNSIGNED COMMENT '出去客流量'   Allow Null

   PackTime          datetime                               Allow Null

   UpdateTime        datetime                               Allow Null

   Period            smallint(6)                            Allow Null

   Index              Fields   Extra

   Idx\_MPack\_Date     Date

   Idx\_MPack\_ZoneID   ZoneID

**MT\_Pack\_Passengerflow**

   Field           Type                                   Extra

P  ID              int(11)                                Auto Increment

   ZoneID          int(11)

   Date            varchar(20)                            Allow Null

   DateHour        smallint(6)                            Allow Null

   DateMinPeriod   smallint(6)                            Allow Null

   CountEnter      smallint(6) UNSIGNED COMMENT '进入客流量'   Allow Null

   CountExit       smallint(6) UNSIGNED COMMENT '出去客流量'   Allow Null

   Period          smallint(6)                            Allow Null

   PackTime        datetime                               Allow Null

   UpdateTime      datetime                               Allow Null

   Index              Fields   Extra

   Idx\_MPack\_Date     Date

   Idx\_MPack\_ZoneId   ZoneID

   Idx\_MPack\_Period   Period

**MT\_Pack5\_dwelltime**

   Field             Type                                   Extra

P  ID                int(11)                                Auto Increment

   ZoneID            int(11)

   Date              varchar(20)                            Allow Null

   DateHour          smallint(6)                            Allow Null

   DateMin5          smallint(6)                            Allow Null

   NumberServed      smallint(6) UNSIGNED COMMENT '进入客流量'   Allow Null

   SecondsOccupied   smallint(6) UNSIGNED COMMENT '出去客流量'   Allow Null

   PackTime          datetime                               Allow Null

   UpdateTime        datetime                               Allow Null

   Index              Fields   Extra

   Idx\_MPack\_Date     Date

   Idx\_MPack\_ZoneID   ZoneID

**MT\_Pack5\_Passengerflow**

   Field        Type                                   Extra

P  ID           int(11)                                Auto Increment

   ZoneID       int(11)

   Date         varchar(20)                            Allow Null

   DateHour     smallint(6)                            Allow Null

   DateMin5     smallint(6)                            Allow Null

   CountEnter   smallint(6) UNSIGNED COMMENT '进入客流量'   Allow Null

   CountExit    smallint(6) UNSIGNED COMMENT '出去客流量'   Allow Null

   PackTime     datetime                               Allow Null

   UpdateTime   datetime                               Allow Null

   Index              Fields   Extra

   Idx\_MPack\_Date     Date

   Idx\_MPack\_ZoneID   ZoneID

**MT\_passengerflow**

   Field        Type                                   Extra

P  ID           int(11)                                Auto Increment

   ZoneID       int(11)

   DateTime     timestamp COMMENT '发生的时间'              Allow Null

   Date         date                                   Allow Null

   DateHour     smallint(6)                            Allow Null

   DateMin      smallint(6)                            Allow Null

   DateMin5     smallint(6)                            Allow Null

   CountEnter   smallint(6) UNSIGNED COMMENT '进入客流量'   Allow Null

   CountExit    smallint(6) UNSIGNED COMMENT '出去客流量'   Allow Null

   Index                Fields     Extra

   Idx\_MPack\_Date       Date

   Idx\_MPack\_DateTime   DateTime

   Idx\_MPack\_ZoneId     ZoneID

**MT\_wifidetect5min**

   Field         Type          Extra

P  ID            int(11)       Auto Increment

   ZoneID        int(11)

   DateTime      timestamp     Allow Null

   Date          date          Allow Null

   Ipaddr        varchar(15)   Allow Null

   MacDetected   varchar(17)   Allow Null

   Enter         tinyint(1)    Allow Null

   Rssi          varchar(5)    Allow Null

   MPnumber      varchar(15)   Allow Null

   Index      Fields     Extra

   DateTime   DateTime

**passengerflow**

   Field        Type                                   Extra

P  ID           int(11)                                Auto Increment

   ZoneID       int(11)

   DateTime     timestamp COMMENT '发生的时间'              Allow Null

   Date         date                                   Allow Null

   DateHour     smallint(6)                            Allow Null

   DateMin      smallint(6)                            Allow Null

   CountEnter   smallint(6) UNSIGNED COMMENT '进入客流量'   Allow Null

   CountExit    smallint(6) UNSIGNED COMMENT '出去客流量'   Allow Null

   Index                           Fields   Extra

   passengerflow\_zoneid\_zone\_idx   ZoneID

   IndexDate                       Date

**Physicalzone**

   Field        Type                                 Extra

P  Id           int(11)                              Auto Increment

   StoreId      varchar(50)

   SiteID       int(11)                              Allow Null

   Name         varchar(96)                          Allow Null

   ZoneTypeId   varchar(50)                          Allow Null

   Enable       smallint(6) COMMENT '1 for enable'   Allow Null

   Floor        varchar(50)                          Allow Null

   ReverseBak   smallint(6)                          Allow Null

   Overload     smallint(6)                          Allow Null

   Index            Fields       Extra

   Idx\_ZoneTypeId   ZoneTypeId

   Idx\_StoreId      StoreId

**R\_Physicalzone\_zone**

   Field            Type          Extra

P  Id               int(50)       Auto Increment

   PhysicalzoneId   int(50)

   ZoneId           int(50)

   Reverse          smallint(6)   Allow Null

   DeviceType       varchar(8)    Allow Null

**S\_Category**

   Field        Type                          Extra

P  Id           varchar(50) COMMENT '类型主键'

   Name         varchar(200) COMMENT '类型名称'   Allow Null

   KeyName      varchar(200)                  Allow Null

   Data         varchar(200) COMMENT '类型数据'   Allow Null

   ParentId     varchar(50) COMMENT '上级类型'

   ImageUrl     varchar(300) COMMENT '图标'     Allow Null

   Rank         int(11) COMMENT '次序'

   UpdateUser   varchar(50)                   Allow Null

   UpdateTime   varchar(20)                   Allow Null

   DeleteFlag   int(11)

   Remark       varchar(500)                  Allow Null

   Index          Fields     Extra

   Idx\_ParentId   ParentId

   Idx\_Data       Data

**S\_Menu**

   Field         Type                          Extra

P  Id            varchar(50) COMMENT '菜单主键'

   Name          varchar(50) COMMENT '菜单名称'    Allow Null

   ParentId      varchar(50) COMMENT '上级菜单'

   ImageUrl      varchar(100) COMMENT '图标'     Allow Null

   PageUrl       varchar(200) COMMENT '页面地址'   Allow Null

   Visible       smallint(11) COMMENT '是否可见'

   Rank          int(11) COMMENT '次序'

   Description   varchar(400) COMMENT '描述'     Allow Null

**S\_PlatformLog**

   Field           Type           Extra

P  Id              int(11)        Auto Increment

   Date            datetime

   LogType         varchar(50)    Allow Null

   UserCode        varchar(200)   Allow Null

   UserIp          varchar(100)

   Operate         varchar(50)

   OperateTarget   varchar(100)   Allow Null

   OperateResult   smallint(11)

   PageUrl         varchar(300)

   PageOperate     varchar(50)    Allow Null

   Message         text           Allow Null

   Exception       text           Allow Null

   Index      Fields   Extra

   Idx\_Date   Date

**S\_Role**

   Field         Type                          Extra

P  Id            varchar(50) COMMENT '角色主键'

   Name          varchar(100) COMMENT '角色名称'

   ParentId      varchar(50) COMMENT '上级角色'

   IsSystem      int(11) COMMENT '是否系统角色'      Allow Null

   Description   varchar(400) COMMENT '角色描述'   Allow Null

   UpdateUser    varchar(50)                   Allow Null

   UpdateTime    varchar(20)                   Allow Null

   DeleteFlag    int(11)                       Allow Null

**S\_User**

   Field        Type                            Extra

P  Id           varchar(50) COMMENT '用户主键'

   AccountNo    int(11) COMMENT '用户编号'

   UserCode     varchar(50) COMMENT '用户名'

   UserPwd      varchar(50) COMMENT '用户密码'

   Name         varchar(50) COMMENT '姓名'

   RoleId       varchar(50) COMMENT '用户角色'

   Email        varchar(200) COMMENT '邮件地址'     Allow Null

   Mobile       varchar(50) COMMENT '手机'        Allow Null

   Telephone    varchar(50) COMMENT '电话'        Allow Null

   TryTimes     smallint(11) COMMENT '尝试登录次数'   Allow Null

   IsLock       smallint(11) COMMENT '是否锁定'     Allow Null

   LockTime     varchar(20) COMMENT '锁定时间'      Allow Null

   CreateUser   varchar(50)                     Allow Null

   CreateTime   varchar(20)

   UpdateUser   varchar(50)                     Allow Null

   UpdateTime   varchar(20)

   DeleteFlag   int(11)

**SR\_Role\_Menu**

   Field    Type                             Extra

P  Id       varchar(50) COMMENT '角色功能授权主键'

   RoleId   varchar(50) COMMENT '角色编码'

   MenuId   varchar(50) COMMENT '菜单编码'

**SR\_User\_Store**

   Field     Type                             Extra

P  Id        varchar(50) COMMENT '角色数据授权主键'

   UserId    varchar(50) COMMENT '角色编码'

   StoreId   varchar(50) COMMENT '门店编码'

**T\_Activity**

   Field         Type           Extra

P  Id            varchar(50)

   Name          varchar(50)

   StartTime     varchar(25)

   EndTime       varchar(25)

   Description   varchar(400)   Allow Null

**T\_AlarmHistory**

   Field         Type           Extra

P  Id            varchar(50)

   AlarmCode     varchar(20)

   DeviceName    varchar(20)

   Description   varchar(800)

   FirstTime     varchar(20)

   LastTime      varchar(20)

   RecoverTime   varchar(20)    Allow Null

   AlarmCount    int(11)

**T\_AlarmLog**

   Field         Type           Extra

P  Id            varchar(50)

   AlarmCode     varchar(20)

   DeviceName    varchar(20)

   Description   varchar(800)

   FirstTime     varchar(20)

   LastTime      varchar(20)

   RecoverTime   varchar(20)    Allow Null

   AlarmCount    int(11)

**T\_AutoRun**

   Field         Type           Extra

P  Id            varchar(50)

   ConfigName    varchar(30)

   Service       varchar(50)

   RunAtStart    int(11)        Allow Null

   RunTime       varchar(30)    Allow Null

   TickPeriod    varchar(50)    Allow Null

   TickTime      int(11)        Allow Null

   Weekdays      varchar(40)    Allow Null

   Description   varchar(400)   Allow Null

   Enabled       int(11)        Allow Null

**T\_BusinessTime**

   Field         Type           Extra

P  Id            varchar(50)

   TimeType      varchar(50)

   StartDate     varchar(25)

   EndDate       varchar(25)

   Weekdays      varchar(30)    Allow Null

   StartTime     varchar(10)

   EndTime       varchar(10)

   Description   varchar(400)   Allow Null

**T\_Holiday**

   Field       Type          Extra

P  Id          varchar(50)

   Name        varchar(50)

   Holiday     varchar(20)

   DayType     varchar(50)

   IsWorkday   smallint(6)   Allow Null

**T\_log**

   Field      Type                                    Extra

P  ID         int(11)                                 Auto Increment

   DeviceID   int(11)                                 Allow Null

   DateTime   timestamp ON UPDATE CURRENT\_TIMESTAMP   Allow Null

   Date       date                                    Allow Null

   LevelID    smallint(6)                             Allow Null

   EventID    smallint(6)                             Allow Null

   Message    varchar(128)                            Allow Null

   Index           Fields     Extra

   IndexDate       Date

   IndexDeviceID   DeviceID

**T\_Pack\_dwelltime**

   Field             Type                                   Extra

P  ID                int(11)                                Auto Increment

   ZoneID            int(11)

   Date              varchar(20)                            Allow Null

   DateHour          smallint(6)                            Allow Null

   DateMinPeriod     smallint(6)                            Allow Null

   NumberServed      smallint(6) UNSIGNED COMMENT '进入客流量'   Allow Null

   SecondsOccupied   smallint(6) UNSIGNED COMMENT '出去客流量'   Allow Null

   Period            smallint(6)                            Allow Null

   PackTime          datetime                               Allow Null

   UpdateTime        datetime                               Allow Null

   Index             Fields   Extra

   Idx\_Pack\_Date     Date

   Idx\_Pack\_Period   Period

**T\_Pack\_Passengerflow**

   Field           Type                                   Extra

P  ID              int(11)                                Auto Increment

   ZoneID          int(11)

   Date            varchar(10)                            Allow Null

   DateHour        smallint(6)                            Allow Null

   DateMinPeriod   smallint(6)                            Allow Null

   CountEnter      smallint(6) UNSIGNED COMMENT '进入客流量'   Allow Null

   CountExit       smallint(6) UNSIGNED COMMENT '出去客流量'   Allow Null

   Period          smallint(6)                            Allow Null

   PackTime        datetime                               Allow Null

   UpdateTime      datetime                               Allow Null

   Index             Fields   Extra

   Idx\_Pack\_Date     Date

   Idx\_Pack\_Period   Period

**T\_Pack\_WifiDuration**

   Field         Type                              Extra

P  ID            int(11)                           Auto Increment

   StoreId       varchar(50)

   Date          varchar(20)                       Allow Null

   MacDetected   int(6) UNSIGNED COMMENT '进入客流量'   Allow Null

   Duration      int(6) UNSIGNED COMMENT '出去客流量'   Allow Null

   MacEntered    int(6)                            Allow Null

   MacRepeated   int(6)                            Allow Null

   UpdateTime    varchar(25)                       Allow Null

   PackTime      varchar(25)                       Allow Null

   Index           Fields   Extra

   Idx\_Pack\_Date   Date

**T\_Pack5\_dwelltime**

   Field             Type                                   Extra

P  ID                int(11)                                Auto Increment

   ZoneID            int(11)

   Date              varchar(20)                            Allow Null

   DateHour          smallint(6)                            Allow Null

   DateMin5          smallint(6)                            Allow Null

   NumberServed      smallint(6) UNSIGNED COMMENT '进入客流量'   Allow Null

   SecondsOccupied   smallint(6) UNSIGNED COMMENT '出去客流量'   Allow Null

   PackTime          datetime                               Allow Null

   UpdateTime        datetime                               Allow Null

   Index           Fields   Extra

   Idx\_Pack\_Date   Date

**T\_Pack5\_Passengerflow**

   Field        Type                                   Extra

P  ID           int(11)                                Auto Increment

   ZoneID       int(11)

   Date         varchar(10)                            Allow Null

   DateHour     smallint(6)                            Allow Null

   DateMin5     smallint(6)                            Allow Null

   CountEnter   smallint(6) UNSIGNED COMMENT '进入客流量'   Allow Null

   CountExit    smallint(6) UNSIGNED COMMENT '出去客流量'   Allow Null

   PackTime     datetime                               Allow Null

   UpdateTime   datetime                               Allow Null

   Index            Fields   Extra

   Idx\_Pack5\_Date   Date

**T\_pack5\_wifidetect**

   Field               Type          Extra

P  ID                  int(11)       Auto Increment

   ZoneID              int(11)

   DateTime            timestamp     Allow Null

   Date                varchar(20)   Allow Null

   DateHour            smallint(6)   Allow Null

   DateMin5            smallint(6)   Allow Null

   NumMacDetected      int(11)       Allow Null

   NumMacEnter         int(11)       Allow Null

   NumMacEnterReturn   int(11)       Allow Null

   NumMacEnterNew      int(11)       Allow Null

   Index         Fields   Extra

   ZoneIdIndex   ZoneID

   DateIndex     Date

**T\_pack5\_wifiduration**

   Field         Type          Extra

P  ID            int(11)       Auto Increment

   ZoneID        int(11)

   DateTime      timestamp     Allow Null

   Date          varchar(20)   Allow Null

   DateHour      smallint(6)   Allow Null

   DateMin5      smallint(6)   Allow Null

   MacDetected   varchar(17)   Allow Null

   Duration      smallint(6)   Allow Null

   Rssi          varchar(5)    Allow Null

   MPnumber      varchar(15)   Allow Null

   Ipaddr        varchar(15)   Allow Null

   Index         Fields   Extra

   ZoneIdIndex   ZoneID

   DateIndex     Date

**T\_pack60\_wifidetect**

   Field               Type          Extra

P  ID                  int(11)       Auto Increment

   ZoneID              int(11)

   DateTime            timestamp     Allow Null

   Date                varchar(20)   Allow Null

   DateHour            smallint(6)   Allow Null

   DateMin5            smallint(6)   Allow Null

   NumMacDetected      int(11)       Allow Null

   NumMacEnter         int(11)       Allow Null

   NumMacEnterReturn   int(11)       Allow Null

   NumMacEnterNew      int(11)       Allow Null

   Index         Fields   Extra

   ZoneIdIndex   ZoneID

   DateIndex     Date

**T\_packday\_wifidetect**

   Field               Type          Extra

P  ID                  int(11)       Auto Increment

   ZoneID              int(11)

   DateTime            timestamp     Allow Null

   Date                varchar(20)   Allow Null

   NumMacDetected      int(11)       Allow Null

   NumMacEnter         int(11)       Allow Null

   NumMacEnterReturn   int(11)       Allow Null

   NumMacEnterNew      int(11)       Allow Null

   Index         Fields   Extra

   ZoneIdIndex   ZoneID

   DateIndex     Date

**T\_Pos**

   Field              Type          Extra

P  Id                 int(11)       Auto Increment

   StoreId            varchar(50)

   PhysicalZoneId     int(11)

   PosDate            varchar(20)   Allow Null

   DateHour           int(20)       Allow Null

   DateMin            int(11)       Allow Null

   DateMinPeriod      int(11)       Allow Null

   Period             int(11)       Allow Null

   Place              varchar(50)   Allow Null

   Sales              int(11)       Allow Null

   TradesNumber       int(11)       Allow Null

   TradeGoodsNumber   int(11)       Allow Null

   UpdateTime         varchar(25)   Allow Null

   Index             Fields    Extra

   Idx\_Pos\_PosDate   PosDate

   Idx\_Pos\_StoreId   StoreId

**T\_Tag**

   Field       Type           Extra

P  Id          varchar(50)

   TableName   varchar(50)

   KeyId       varchar(50)    Allow Null

   TagName     varchar(50)    Allow Null

   TagValue    varchar(200)   Allow Null

   Index           Fields   Extra

   Idx\_Tag\_KeyId   KeyId

**T\_Weather**

   Field            Type          Extra

   Id               varchar(50)

   CityId           varchar(50)

   WeatherDate      varchar(25)

   WeatherName      varchar(20)   Allow Null

   ImageUrl         varchar(50)   Allow Null

   LowTemp          int(11)       Allow Null

   HighTemp         int(11)       Allow Null

   Humidity         int(8)        Allow Null

   PM25             int(11)       Allow Null

   PollutionLevel   int(11)       Allow Null

   Index                Fields                Extra

   Idx\_Weather\_ID       CityId, WeatherDate   Unique

   Idx\_Weather\_CityId   CityId

   Idx\_Weather\_Date     WeatherDate

**T\_wifi\_fixdevicedaily**

   Field         Type                        Extra

P  ID            int(11)                     Auto Increment

   ZoneID        int(11)

   MacDetected   varchar(17)                 Allow Null

   VisitTimes    int(11) UNSIGNED ZEROFILL   Allow Null

   FirstTime     timestamp                   Allow Null

   LatestTime    timestamp                   Allow Null

   Duration      smallint(6)                 Allow Null

   Ipaddr        varchar(15)                 Allow Null

   MaxRssi       varchar(5)                  Allow Null

   MinRssi       varchar(5)                  Allow Null

   MPnumber      varchar(15)                 Allow Null

   Index                        Fields        Extra

   fk\_wifidetectmac\_zone1\_idx   ZoneID

   MacIndex                     MacDetected

   MaxRssiIndex                 MaxRssi

   MinRssiIndex                 MinRssi

**T\_wifidetect**

   Field         Type                        Extra

P  ID            int(11)                     Auto Increment

   ZoneID        int(11)

   MacDetected   varchar(17)                 Allow Null

   VisitTimes    int(11) UNSIGNED ZEROFILL   Allow Null

   FirstTime     timestamp                   Allow Null

   LatestTime    timestamp                   Allow Null

   Duration      smallint(6)                 Allow Null

   Ipaddr        varchar(15)                 Allow Null

   MaxRssi       varchar(5)                  Allow Null

   MinRssi       varchar(5)                  Allow Null

   MPnumber      varchar(15)                 Allow Null

   Index                        Fields        Extra

   fk\_wifidetectmac\_zone1\_idx   ZoneID

   MacIndex                     MacDetected

   MaxRssiIndex                 MaxRssi

   MinRssiIndex                 MinRssi

**T\_wifidetectdaily**

   Field         Type                        Extra

P  ID            int(11)                     Auto Increment

   ZoneID        int(11)

   MacDetected   varchar(17)                 Allow Null

   VisitTimes    int(11) UNSIGNED ZEROFILL   Allow Null

   FirstTime     timestamp                   Allow Null

   LatestTime    timestamp                   Allow Null

   Duration      smallint(6)                 Allow Null

   Ipaddr        varchar(15)                 Allow Null

   MaxRssi       varchar(5)                  Allow Null

   MinRssi       varchar(5)                  Allow Null

   MPnumber      varchar(15)                 Allow Null

   Index                        Fields        Extra

   fk\_wifidetectmac\_zone1\_idx   ZoneID

   MacIndex                     MacDetected

**T\_wifidetecthour**

   Field         Type                                    Extra

P  ID            int(11)                                 Auto Increment

   ZoneID        int(11)

   MacDetected   varchar(17)                             Allow Null

   DateTime      timestamp ON UPDATE CURRENT\_TIMESTAMP   Allow Null

   DateHour      smallint(6)                             Allow Null

   VisitTimes    smallint(6) UNSIGNED ZEROFILL           Allow Null

   Duration      smallint(6)                             Allow Null

   Index                        Fields        Extra

   fk\_wifidetectmac\_zone1\_idx   ZoneID

   MacIndex                     MacDetected

**T\_wifidetectorigdata**

   Field         Type          Extra

P  ID            int(11)       Auto Increment

   ZoneID        int(11)

   DateTime      timestamp     Allow Null

   Date          date          Allow Null

   Ipaddr        varchar(15)   Allow Null

   MacDetected   varchar(17)   Allow Null

   Enter         tinyint(1)    Allow Null

   Rssi          varchar(5)    Allow Null

   MPnumber      varchar(15)   Allow Null

   Index      Fields     Extra

   DateTime   DateTime

**TR\_Store\_Activity**

   Field        Type          Extra

P  Id           varchar(50)

   StoreId      varchar(50)

   ActivityId   varchar(50)

**TR\_Store\_BusinessTime**

   Field     Type          Extra

P  Id        varchar(50)

   StoreId   varchar(50)

   TimeId    varchar(50)

**TR\_Store\_Relation**

   Field        Type          Extra

P  Id           int(11)       Auto Increment

   StoreId      varchar(50)

   CustomerId   varchar(50)

**zone**

   Field            Type                                 Extra

P  ID               int(11)                              Auto Increment

   PhysicalZoneID   int(11)                              Allow Null

   Name             varchar(48)                          Allow Null

   DeviceID         int(11)                              Allow Null

   DeviceZoneID     smallint(6)

   CreateDate       timestamp                            Allow Null

   Enable           smallint(6) COMMENT '1 for enable'   Allow Null

   ZoneClass        varchar(20)                          Allow Null

   Index             Fields                   Extra

   Idx\_Zone\_Unique   DeviceID, DeviceZoneID   Unique