FushionInsight Universe API Introduction
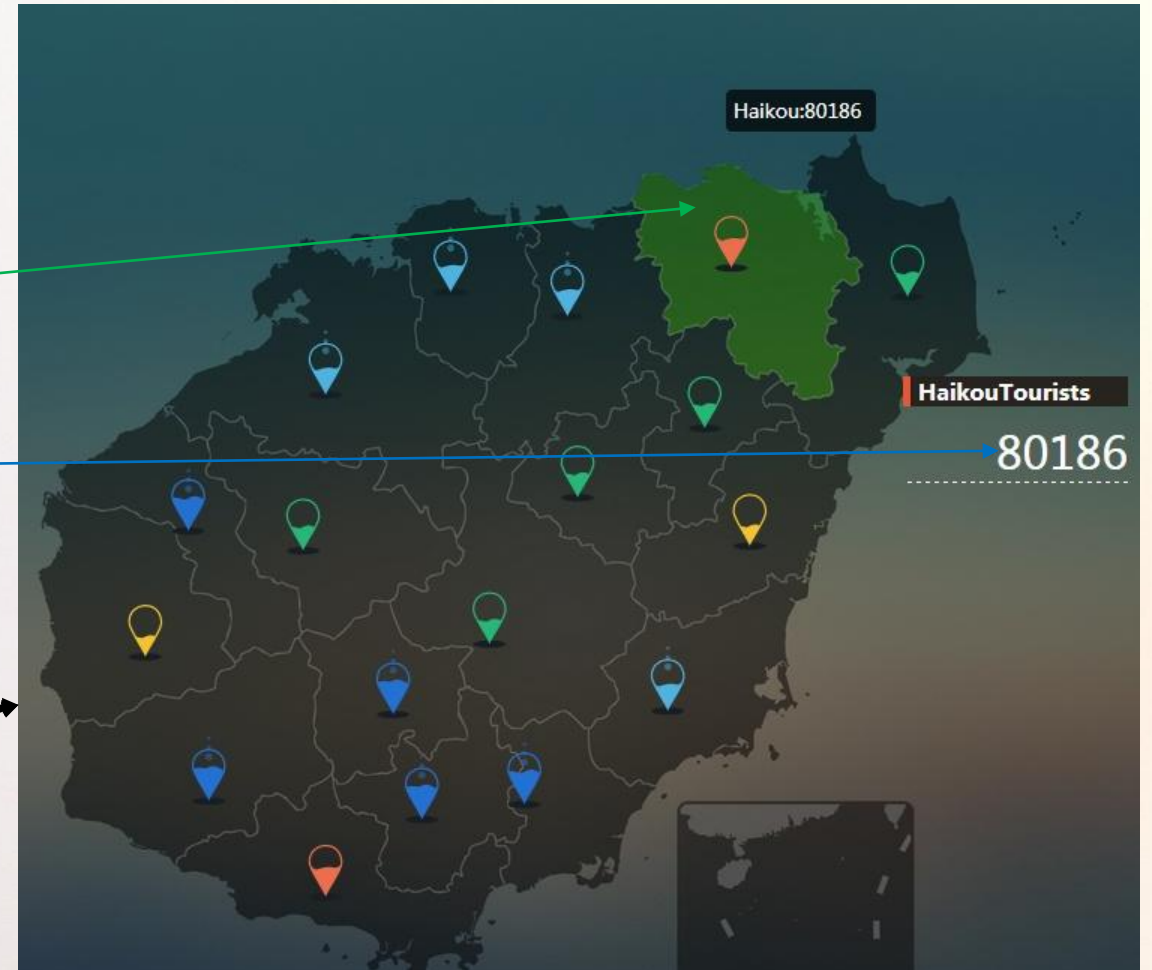
FusionInsight Universe : How to use Location Insight create an App

Postman

File   Edit   View   Collection   History   Help

Runner   Import

Filter

History   Collections

All   Me   Team

Location Insight

POST   Create Area By Grid

POST   Get Area Crowd IDs

POST   Get Area Crowd Sum

POST   Get Area Crowd Sum By Slice

POST   Get Area Crowd Summary By Grid

POST   Get Area Composition Analysis

POST   Get Area Migration Crowd Sum By Source Area

POST   Get City ID

POST   Get City Grid

POST   Get City Precision

POST   Get City Bound Coordinate

POST   Get City Center Coordinate

POST   Get Residence By Grid

2、Create the area Haikou

3、Get population number in Haikou area

1、To draw the electronic map

Haikou:80186

HaikouTourists

80186

Post Man Sample

API List for more information

| API Name	API URL	Headers	Request Body	Response Body	Description

Get Area Crowd Sum	https://218.4.33.207:17100/LIAPI7/V1.0.0/li/ebus/pvis/areacrowding/getsummary	Authorization: Bearer ab6a408d-d3c7-4673-a53d-7a458fa22862
		Content-Type: application/json
		username: Liuser
		password: 3er10#ER$
			{
			"city_id": "FR001",
			"begin_time": "20170411120000",
			"end_time": "20170411123000",
			"area_id": "c2f1e078beb1472ba7b889ef4bfdef6e",
			"filter_id": "1004",
			"grading": "Hour"
			}
				{
				  "errorDescription": "Operation Success",
				  "errorCode": "0",
				  "state": "Success",
				  "results": {
				    "total_count": "892"
				  }
				}
					1、 Count total users in this area (**parameter 'filter_id'** can customize in location insight, 'filter_id' 1004 is allready customized, its means: 'visiting users in this area'; **parameter 'grading'** contain Minute/Hour/Day, Minute need streaming data, in this case we cannot provide)

Sample data for Open Hack

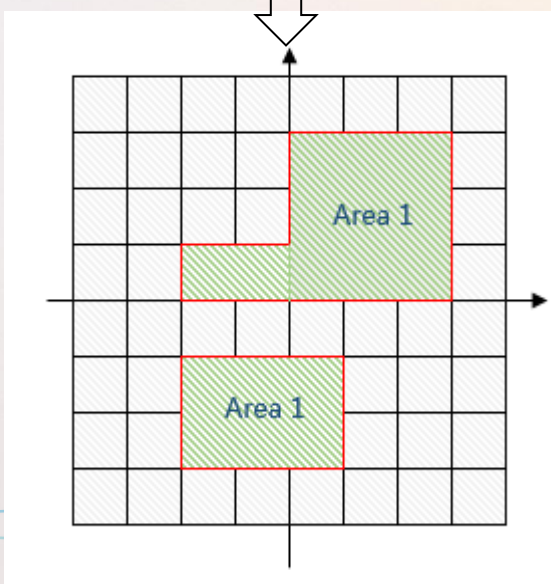**Nice:**

North_lat
43.769622

West_lng
7.172821

East_lng
7.331907

South_lat
43.636718
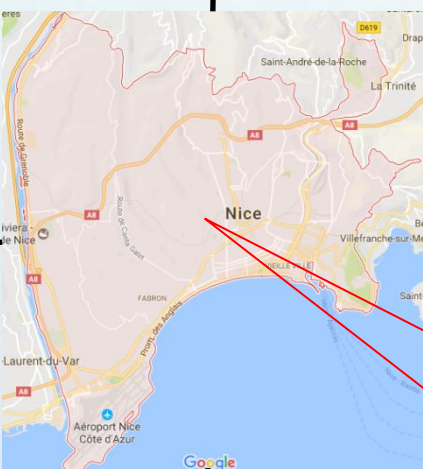
According to the city center,
We divide nice city into
4884 grids of 200 meters x
200 meters.
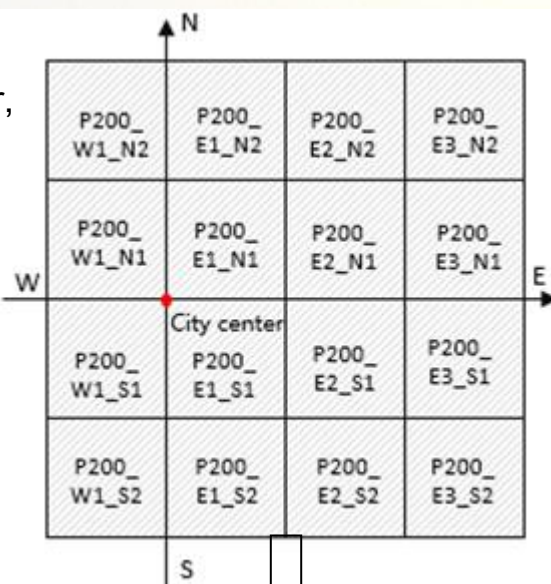
City Center
- **lng 7.252385**
- **lat 43.7031105**
**According to the city boundary，
we obtain the coordinate of the
city center.**

P200_W1_N2	P200_E1_N2	P200_E2_N2	P200_E3_N2
P200_W1_N1	P200_E1_N1	P200_E2_N1	P200_E3_N1
P200_W1_S1	P200_E1_S1	P200_E2_S1	P200_E3_S1
P200_W1_S2	P200_E1_S2	P200_E2_S2	P200_E3_S2

City center

- ■City: Nice
- ■City_id: FR001
- ■City_name: Nice

- ■Area numbers: 6
- ■Area1: Vieux Nice
- ■Area2: Avenue Jean Médecin
- ■Area3: Promenade des Anglais
- ■Area4: Castle Hill
- ■Area5: Musée Matisse
- ■Area6: Nice Sport Hall

According to the city grids,
We create an area named Vieux
Nice, the area includes 42 grids.
Such as:
["P200_E8_S4","P200_E8_S3","P200_E9_S4","P200_E9_S3","P200_E10_S4","P200_E10_S3","P200_E11_S4"]

Area 1

Area 1

- ■**Nice got 4884 grids，**
  each grid contains data, such as：
  msisdn、age、gender、arpu and prefer.

- ■**Data structure:**
  msisdn|age|gender|arpu|prefer
  13810030001|42|1|2000|1
  13810030002|43|0|3000|1 ...

- ■**Data range (100000 rows)**
  msisdn: 13810030001~13810130001
  age: 0~120
  gender : 0:Male;1:Female
  prefer :   0:Movies; 1:Games; 2:Sports;
                3:Food; 4:Cars
  arpu: 1000~50000

Area Information:
- ■**Area 1(Vieux Nice) got 42 grids**
- ■**Total population** in area 1 are 623
- ■**Gender**
  female: 322; male: 301
- ■**Age**
  0~15: 77;   15~30: 74
  30~45: 68;   45~60: 79 ...
- ■**Preference**
  Cars: 120; Game: 125;
  Movies: 112; Sports: 138;
  Food: 128
- ■**ARPU:**
  0~10000: 124
  10001~20000: 128 ... ...

Please visit these links for more information:
•Huawei Developer http://developer.huawei.com/ict/en
•FI-Universe http://carrier.huawei.com/en/products/carrier-software/enabling-digital-operation-business-agility/fusioninsight-universe-big-data-analytics
•FI-Universe http://developer.huawei.com/ict/en/site-bigdata/solution/site-universe
•Digital RM http://carrier.huawei.com/en/products/carrier-software/enabling-digital-operation-business-agility/cbs

Any question? Please contact with yuguozhu.yu@huawei.com.

THANK YOU