

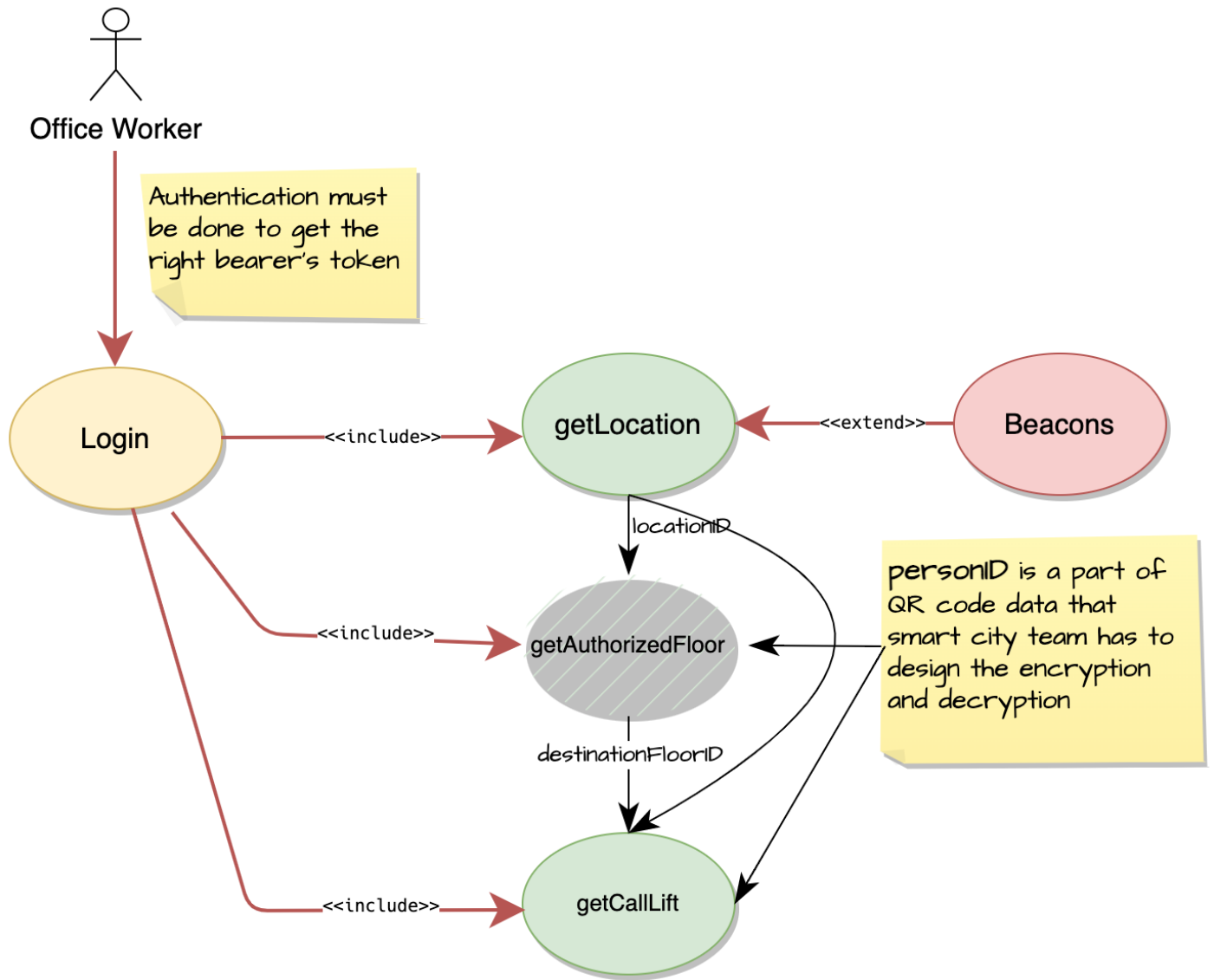
OB Turnstile API Sandbox

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User Flow

revision 20231004



User Access

```
{
  "username": "mtel",
  "password": "xxxx"
}
```

Simulated Beacon Data

Please be noted that different beacons can have the same locationID. For example, when you are at floor 1, and try to call lift from that area which is very large. Team has decided to put 2-3 beacons and map them as one zone.

be ac on ID	bea co nN am e	bea con Maj orC ode	bea con Min orC ode	lo ca tio nI D	loc atio nNa me	loca tion Na meT hai	to w erl D	to we rN am e	zo n el D	zo ne Na me	zon eNa me Tha i	fl o or ID	flo or Na me
1	Bea con s01	010 1	010 101	1	O2- L1 Zon e1	โลเค ชั่น0 1	1	O2	1	Zo ne 1	โซน 1	1	L1
2	Bea con s02	010 1	010 102	1	O2- L1 Zon e1	โลเค ชั่น0 1	1	O2	1	Zo ne 1	โซน 1	1	L1
3	Bea con s03	010 1	020 101	2	O2- L1 Zon e2	โลเค ชั่น0 2	1	O2	2	Zo ne 2	โซน 2	1	L1
4	Bea con s04	010 1	020 102	2	O2- L1 Zon e2	โลเค ชั่น0 2	1	O2	2	Zo ne 2	โซน 2	1	L1
5	Bea con s05	010 1	030 101	3	O2- L1 Zon e3	โลเค ชั่น0 3	1	O2	3	Zo ne 3	โซน 3	1	L1
6	Bea con s06	010 1	030 102	3	O2- L1 Zon e3	โลเค ชั่น0 3	1	O2	3	Zo ne 3	โซน 3	1	L1
7	Bea con s07	010 1	040 101	4	O2- L1 Zon e4	โลเค ชั่น0 4	1	O2	4	Zo ne 4	โซน 4	1	L1
51	Bea con s51	010 1	052 801	67	O2- L28 Vip Zon e	โลเค ชั่น6 7	1	O2	5	VIP Zo ne	วีไอ พี โซน	28	L2 8
53	Bea con s53	010 1	052 901	68	O2- L29 Vip	โลเค ชั่น6 8	1	O2	5	VIP Zo ne	วีไอ พี โซน	29	L2 9

be ac on ID	bea co nN am e	bea con Maj orC ode	bea con Min orC ode	lo ca tio nI D	loc atio nNa me	loca tion Na meT hai	to w erl D	to we rN am e	zo n el D	zo ne Na me	zon eNa me Tha i	fl o or ID	flo or Na me
					Zone								
55	Beacon s55	010 1	053 001	69	O2- L30 Vip Zone	โลเค ชั่น6 9	1	O2	5	VIP Zone	วีไอ พี โซน	30	L3 0
57	Beacon s57	010 1	053 101	70	O2- L31 Vip Zone	โลเค ชั่น7 0	1	O2	5	VIP Zone	วีไอ พี โซน	31	L3 1
59	Beacon s59	010 1	053 201	71	O2- L32 Vip Zone	โลเค ชั่น7 1	1	O2	5	VIP Zone	วีไอ พี โซน	32	L3 2
83	Beacon s83	010 1	044 401	83	O2- L44 Vip Zone	โลเค ชั่น8 3	1	O2	5	VIP Zone	วีไอ พี โซน	44	L4 4
85	Beacon s85	010 1	044 501	84	O2- L45 Vip Zone	โลเค ชั่น8 4	1	O2	5	VIP Zone	วีไอ พี โซน	45	L4 5

Simulated Member Data (personID)

In our implementaion and operations, FS wil synchronize the personID data update to the link that we connect from One Bangkok system to AWS.

The data pattern example can be accessible through this [link](#) office workers to ensure the test case will cover all of these office workers'scenario.

No	Name	personID	Office Worker Type
1	Prawit	14341eb6-6690-40b4-bc74-f68cbac5e70a	Single floor leased
2	Prayut	07433f76-df50-45a4-974f-3a733b7b989e	Multiple floors leased
3	Taksin	A50C364F-52EF-4D8C-96F4-67C854EF8CA7	All floors and multiple towers

Other personID that we can run the testing and bundle to create the QR code.

Turnstile API Flow

1. Login API

``/api/Login/Login``

```
request
{
  "username": "mtel",
  "password": "fscp_1"
}

response on July 2023
{
  "message": "Successfully!",
  "status": 0,
  "data": {
    "user_ID": 10000,
    "user_Name": "mtel",
    "firstName": "Mtel",
    "lastName": "SYSTEM",
    "department": null,
    "position": null,
    "note": null,
    "active": true,
    "isLogIn": true,
    "token":
"eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJVc2VyX01EIjoibTAwMDAiLCJSb2x1X01EIjoibWVzZXJfTmFtZSI6Im10ZWwiLCJuYmYiOiJlY20tMTNzE4NDMsImV4cCI6MTY5MzY1ODI0MywiaWF0IjoxNjkzNTcxODQzLCJpc3MiOiJGb3J3YXJkU3lzdGVtIiwiaXVkiOiRm9yd2FyZFN5c3RlbSJ9.cDA10Y7Q4pk00wAtQtqr5MlHYzCb-03RZ_q6S4-4Sbs",
    "role_ID": 2
  }
}
```

2. Get a location API

``/api/AuthorizeFloor/getLocation``

Location you submit with beacon information containing majorBeaconID and minorBeaconID, will be composed of

- Building Name e.g., `02`
- Floor Number e.g., `L1`
- Zone Name e.g., `Zone 41`

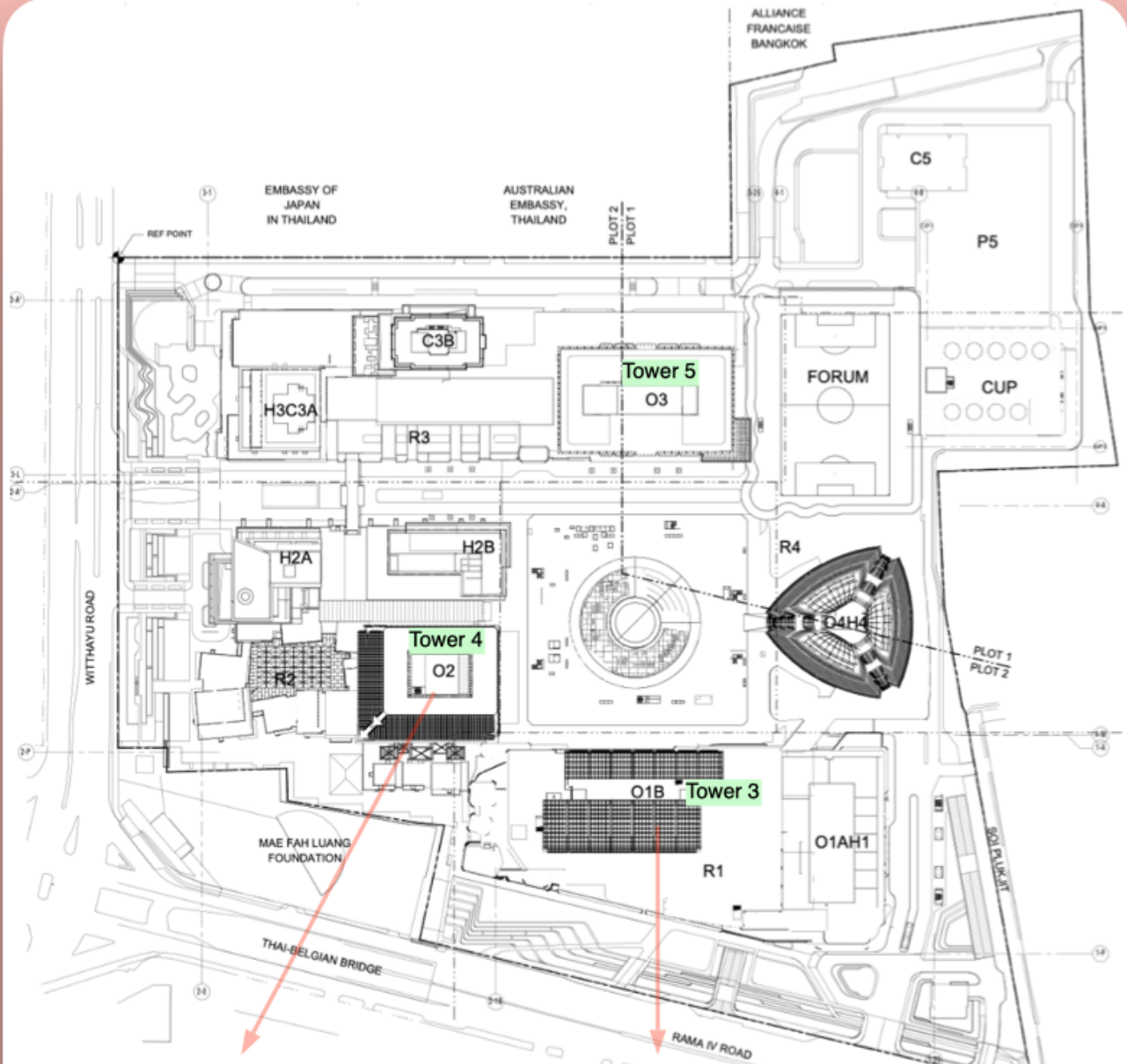
Before getting the authroized floor, we would need to know the following master data mapping `tenantID`, `towerID` `personID` and `locationID`

```
request
{
  "beaconMajorID": "0101",
  "beaconMinorID": "040101"
}

response
{
  "message": "Successfully!",
  "status": 0,
  "data": {
    "locationID": 4,
    "locationName": "02-L1 Zone4"
  }
}
```

Data Mapping Requirements

- `tenantID` still discuss with FS.
- `towerID` still discuss with FS.
- `personID` will retrieve from the data synchronization with Mtel API plus the bulk data load. We can find the sample data load from this [link](#)
- `locationID` will also retrieve from the data synchronization with Mtel API plus the bulk data load. Each `locationID` will be unique for the entire city or all buildings. You can notice from below picture to portray the locationID of each building. The sample data of this is as follow: [Link](#)



Floor	Zone 1	Zone 2	Zone 3	Zone 4	VIP Zone
45				45	84
44				44	83
43				43	82
42				42	81
41				41	80
40				40	79
39				39	78
38				38	77
37				37	76
36				36	75
35			35	74	
34			34	73	
33			33	72	
32			32	71	
31			31	70	
30			30	69	
29			29	68	
28			28	67	
27			27	66	
26		26		65	
25		25		64	
24		24		63	
23		23		62	
22		22		61	
21		21		60	
20		20		59	
19		19		58	
18		18		57	
17	17			56	
16	16			55	
15	15			54	
14	14			53	
13			52		
12	12			51	
11	11			50	
10	10			49	
9	9			48	
8	8			47	
7	7			46	
6				6	
1	1	2	3	4	5

Floor	Zone 1	Zone 2	Zone 3	Zone 4	VIP Zone
45				126	165
44				125	164
43				124	163
42				123	162
41				122	161
40				121	160
39				120	159
38				119	158
37				118	157
36				117	156
35			116		155
34			115		154
33			114		153
32			113		152
31			112		151
30			111		150
29			110		149
28			109		148
27			108		147
26		107			146
25		106			145
24		105			144
23		104			143
22		103			142
21		102			141
20		101			140
19		100			139
18		99			138
17	98				137
16	97				136
15	96				135
14	95				134
94				133	
12	93				132
11	92				131
10	91				130
9	90				129
8	89				128
7	88				127
6					87
1	85	86	87	88	89

3. Get a list of authorized floors

~~/api/AuthorizeFloor/getAuthorizeFloor~~

Updated: This API will no longer be valid since we would need to reduce the numbers of API call between turnstile and mobile app. The way we will do is to provide initial data load and update from turnstile as JSON format in personID data such as [link](#)

```
request
{
  "personID": "7C0426AF-EE20-4D8F-A7AD-305A5CAC65ED",
  "locationID": "1"
}

response
{
  "message": "Successfully!",
  "status": 0,
  "data": {
    "personID": "7c0426af-ee20-4d8f-a7ad-305a5cac65ed",
    "locationID": 1,
    "projectID": 1,
    "towerID": 1,
    "zoneID": 1,
    "floorDatas": [
      {
        "floorID": 1,
        "floorName": "L1",
        "isDefaultFloor": false
      },
      {
        "floorID": 7,
        "floorName": "L7",
        "isDefaultFloor": false
      },
      ...
      {
        "floorID": 17,
        "floorName": "L17",
        "isDefaultFloor": false
      }
    ]
  }
}
```

4. Get a Lift Number

~~/api/AuthorizeFloor/getCallLift`~~

```
request
{
  "personID": "7C0426AF-EE20-4D8F-A7AD-305A5CAC65ED",
  "locationID": "1",
```

```
"destinationFloorID": "17"
}
```

```
response
{
  "message": "Successfully!",
  "status": 0,
  "data": {
    "personID": "7c0426af-ee20-4d8f-a7ad-305a5cac65ed",
    "liftName": "D",
    "floorID": 17,
    "floorName": "L17"
  }
}
```

5. Visitor Pass

``/api/PreRegister/invitePreRegister``

Remark:

1. ``tenantID`` and ``locationID`` will need to retrieve from the data update and bulk load from FS to AWS.
2. When creating multiple or repeating schedule, Mtel needs to submit the multiple requests to FS according to the numbers of schedule.

```
request
{
  "guestInviteDocNo": '1111111111111111',
  "guestInviteName": 'John Doe',
  "tenantID": 1, // from tenantMapping data to Mtel API
  "locationID": 3, // from locationMapping data to Mtel API
  "personID": "14342eb6-6690-40b4-bc74-f68cbac5e70a",
  "inviteSchedule": [
    {
      "endDate": "2024-10-17T17:32:38.257Z",
      "startDate": "2024-10-17T07:32:38.257Z"
    }
  ]
}
```

```
resposne
{
  "message": "Successfully!",
  "status": 0,
  "data": {
    "inviteID": "27a449a8-7ea2-4934-26ae-08dba4b3d0e9"
  }
}
```

6. Push notification to inviter when invitee arrives

Mtel needs to create an API to support the notification to inviter whenever their invitee arrives or passes the turnstile from visitor pass scanned.

This sample shows you when two visitors arrive and pass the turnstile successfully. FS will push this data to Mtel API, and mobile app of inviters (personID) will receive the notifications individually.

```
{
  "notifyData": [
    {
      "personID": "cdbae67e-e525-4f4b-9623-228785792028",
      "liftName": "C",
      "floorID": 3,
      "floorName": "3"
    },
    {
      "personID": "dcd96733-8879-49ba-60ed-08db7baa8193",
      "liftName": "E",
      "floorID": 17,
      "floorName": "17"
    }
  ]
}
```

```
{
  "notifyData": [
    {
      "personID": "cdbae67e-e525-4f4b-9623-228785792028",
      "guestName": "P Ball",
      "liftName": "C",
      "floorID": 3,
      "floorName": "3"
    },
    {
      "personID": "cd96733-8879-49ba-60ed-08db7baa8193",
      "guestName": "P Joe",
      "liftName": "E",
      "floorID": 17,
      "floorName": "17"
    }
  ]
}
```